
COURSE INFORMATION

The university uses a discipline-oriented course numbering system. Courses are identified by academic discipline (e.g., Accounting, Art, Biology). Courses are arranged alphabetically and in ascending numerical order.

Course Numbering

The first digit of a course indicates scholastic level and also provides information regarding restriction to undergraduate and/or graduate student enrollment.

0000-0999	Remediation courses with no credit toward degree
1000-1999	First year/Introductory or Foundation Lower Division
2000-2999	Sophomore/Advanced Lower Division
3000-3999	Junior/Introductory or Foundation Upper Division
4000-4999	Senior/Advanced Upper Division
5000-5999	Graduate/Advanced Undergraduate
6000-6999	Introductory Graduate
7000-7999	Intermediate Graduate
8000-8999	Advanced Graduate including Master's Capstone
9000-9999	Post Masters including Doctoral Capstone

Application to Degree Requirements

Credit earned in courses with the EDPD prefix cannot be applied toward degree requirements of the M.A. in Education.

Explanation of Course Descriptions

Topics Courses

These courses may be offered with different subjects and may be taken more than once.

Credit-hours and Credit Options

Credit-hours (cr.) are shown in parentheses following the course title. Where courses are offered for variable credit, the range of credit-hours is shown.

Description

Following the title line of each course is a brief description of the content of the course.

Course Prerequisites/Corequisites and Restrictions/Requirements

A prerequisite is a course that must be completed before registration in a particular course. In most cases, an equivalent transfer course may be substituted for a listed Governors State course prerequisite. A corequisite is a course that is taken at the same time as another course.

Several courses have prerequisites or corequisites. It is the responsibility of the students to comply with any prerequisite and corequisite requirements for courses that they plan to take.

Courses may also have specific restrictions or requirements. It is the responsibility of the students to comply with any restrictions or requirements for courses that they plan to take.

Students are responsible for contacting their academic advisors for specific information about course restrictions and/or requirements.

Cross Listed Courses

Some courses are cross-listed. Many majors allow the student to take either course to meet the degree requirements. Students are responsible for contacting their academic advisors for additional information about cross listed courses. Students cannot take more than one course of a group of cross listed courses for credit.

Online Course Catalog

The online catalog of courses offered by term is located at <http://classes.govst.edu>.

Accounting

ACCT-2110 Financial Accounting (3.00 cr.)

Emphasizes the beginning accounting cycle. Integrates accounting principles and their applications to business objectives, financial statement preparation, flow of funds, current assets, noncurrent assets, short-term liabilities, stockholders equities, inventory methods and evaluation, depreciation methods, and development of accounting principles. Equivalent to ACCT-301.

ACCT-2111 Managerial Accounting (3.00 cr.)

Focuses on analysis of managerial accounting information needed for planning and control. Investigates the manner in which accounting can provide this information. Emphasizes accounting as a management information tool. Equivalent to ACCT-302. Prerequisite: take ACCT-2110.

ACCT-3111 Cost Accounting I (3.00 cr.)

Includes exposure to a broad range of cost accounting concepts and their terminology. Topics include how to identify, measure, and accumulate direct and indirect costs, how to apply burden, introduction to job costing systems, budgeting, cost-volume-profit relationships, and relevant costing. Equivalent to ACCT-331. Prerequisite: take ACCT-2110.

ACCT-3151 Intermediate Accounting I (3.00 cr.)

Focuses on the study of problems in financial accounting measurement, including an introduction to theory, present-value concepts and applications, current assets, including cash, receivable, and inventory valuation problems. Equivalent to ACCT-351. Prerequisite: take ACCT-2110.

ACCT-3152 Intermediate Accounting II (3.00 cr.)

Continuation of ACCT-3151. Focuses on the study of problems in financial accounting measurement, including plant and equipment, depreciation, intangible assets, current and long-term liabilities, and stockholder's equity, including earnings per share and investments. Equivalent to ACCT-352. Prerequisite: take ACCT-3151.

ACCT-3252 Accounting Information System (3.00 cr.)

An overview of computerized accounting information systems analysis, design, and implementation. Internal controls in a computerized environment. Development and use of accounting information in business application areas. Equivalent to ACCT-452. Prerequisites: take ACCT-3153, MIS-2101.

ACCT-4112 Cost Accounting II (3.00 cr.)

An advanced study of cost accounting and decision-making concepts, objectives, and terminology essential to the cost accountant's role in business. Topics include accounting for spoilage and waste, joint products and by-product costing, process costing, decision modeling, capital budgeting, operations management, non-manufacturing costing, applications of operations research methods, probabilities, transfer pricing, variances, and regression analysis. Equivalent to ACCT-332. Prerequisite: take ACCT-3111.

ACCT-4154 Advanced Accounting (3.00 cr.)

Application of accounting practice for an understanding of the complexities comprising business and finance. Examines corporate combinations and the special applications of measurement and realization principles in such matters as consolidations, conglomerates, pooling of interests, and international operations. Equivalent to ACCT-410. Prerequisite: take ACCT-3153.

ACCT-4251 Taxation of Individuals I (3.00 cr.)

Covers the study of individuals' federal income taxation with an emphasis on the following topics: income, exclusions from income, deductions, exemptions, credits, property transactions, and depreciation. Explores the tax structure and its role, both as a source of revenue and as a device to control the economy. Emphasizes Form 1040 tax return preparation using tax preparation software including common schedules and worksheets. Equivalent to ACCT-424. Prerequisite: take ACCT-2110.

ACCT-4252 Taxation of Individuals II (3.00 cr.)

Covers advanced topics in the federal income taxation of individuals with an emphasis on Form 1040 tax preparation using tax preparation software. Explores federal gift and estate taxation and the federal income taxation of fiduciaries. Introduces computerized tax research using a state of the art online tax research database. Equivalent to ACCT-425. Prerequisite: take ACCT-4251.

ACCT-4354 Auditing I (3.00 cr.)

Deals with the standards, concepts, objectives, techniques, reports, and ethics of both the independent and internal auditor. Special attention is given to statements on auditing standards, auditing procedures, statistical sampling, and EDP in auditing. Equivalent to ACCT-440. Prerequisite: take ACCT-3152.

ACCT-4355 Auditing II (3.00 cr.)

The study in greater depth and breadth of generally accepted auditing standards and their applications with emphasis on internal auditing, operational auditing, and integrity auditing. Special attention is given to computer fraud and investigation. Equivalent to ACCT-441. Prerequisite: take ACCT-4354.

ACCT-4461 Government and Nonprofit Accounting (3.00 cr.)

An overview of accounting and financial reporting for state and local governmental units and nonprofit organizations. Equivalent to ACCT-561. Prerequisite: take ACCT-2110.

ACCT-4805 Internship (3.00 cr.)

Designed to provide accounting students with supervised practical experiences in applied settings. Equivalent to ACCT-480. Prerequisite: take ACCT-3152.

ACCT-4820 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their own choice in accounting under professional supervision. Only the student who is prepared to devote considerable time and effort should undertake an independent study. The student contemplating a course in independent study should first have in mind a definite area for investigation within accounting and an instructor to sponsor the work. Equivalent to ACCT-470.

ACCT-6100 Foundations of Accounting and Finance (3.00 cr.)

Emphasis on the foundation of financial accounting and finance, including the accounting cycle, time value of money, types of financial statements (their format, content, and use), comparison of capital sources (debt versus equity); and managerial accounting concepts: cost-volume-profit analysis, performance measures, and budgeting. Emphasizes using information to make financial and managerial decisions, and lesser emphasis on how accounting information is developed and processed. Intended for non-accountants. Equivalent to ACCT-601.

ACCT-6201 Seminar in Financial Accounting Theory and Practice (3.00 cr.)

Contemporary financial accounting issues, including liabilities, pensions, tax allocation, leases, price level reporting, investments, and capital transactions. Equivalent to ACCT-813. Prerequisite: take ACCT-3153.

ACCT-6252 Advanced Taxation of Individuals (3.00 cr.)

Focuses on advanced topics in the federal income taxation of individual and fiduciaries, and gift and estate taxation with increased emphasis on tax planning. Emphasizes computerized tax research and Form 1040 tax return preparation using tax software. Equivalent to ACCT-725. Prerequisite: take ACCT-4251.

ACCT-6253 Federal Income Taxation of Partnerships and Corporations (3.00 cr.)

Explores the federal income taxation of a) regular "C" corporations and their shareholders, b) "S" corporations and their shareholders, and c) partnerships and their partners. Emphasizes computerized tax research using a state of art online tax research database. Equivalent to ACCT-726. Prerequisite: take ACCT-4251 or ACCT-6252.

ACCT-6331 Accounting Information Technology and Systems (3.00 cr.)

An in-depth analysis of concepts and principles of designing computer systems to perform accounting functions; applications of microcomputer accounting software packages. Equivalent to ACCT-851. Prerequisite: take ACCT-3252 or ACCT-7101.

ACCT-6354 Advanced Auditing (3.00 cr.)

In-depth study of professional standards and regulatory agencies; audit planning; evidence gathering and evaluation. Equivalent to ACCT-841. Prerequisite: take ACCT-4354.

ACCT-6355 Seminar in Auditing Standards and Applications (3.00 cr.)

Role in society; professional auditing organizations; regulatory structure; performance standards and reviews; information and control systems evaluation; acquisition of evidence; materiality and risk judgments; nature of reporting obligation. Equivalent to ACCT-842. Prerequisite: take ACCT-4354.

ACCT-6461 Government and Nonprofit Accounting (3.00 cr.)

An overview of accounting and financial reporting for state and local governmental units and nonprofit organizations. Equivalent to ACCT-861. Prerequisite: take ACCT-2110.

ACCT-7101 Strategic Management Accounting (3.00 cr.)

Offers an in-depth exposure to the management control process, including organizing and evaluating data for decision-making under conditions of uncertainty. Equivalent to ACCT-801. Prerequisites: take ACCT-6100 or take ACCT-2110, ACCT-2111, and FIN-3110.

ACCT-7111 Seminar in Managerial Accounting Theory and Applications (3.00 cr.)

Formal models of management accounting issues; concepts of information; cost assessment; models of incentive contracting; integration of behavioral science; and management accounting. Contemporary topics in management accounting research. Includes agency theory and analytical managerial models. Equivalent to ACCT-831. Prerequisite: take ACCT-7101.

ACCT-7254 Advanced Tax Research (3.00 cr.)

Focuses on applied research in federal taxation. Emphasizes computerized tax research using a state of the art online tax research database to locate primary and secondary source materials. Analyzes primary source materials including the Internal Revenue Code, Treasury Regulations Revenue Rulings, and Supreme Court decisions. Final course for master level specialization in taxation. Equivalent to ACCT-827. Prerequisite: take ACCT-6253.

ACCT-7815 Financial Statement Analysis (3.00 cr.)

Focuses on the use of published financial statements in evaluating business entities. Emphasis is on the evaluation and interpretation of economic events and financial information for purposes such as making investment and credit decisions, evaluating the entities' short and long term debt paying potential, and predicting the entities' potential for generating cash and income in the future. Computer-based; analytical tools will be used throughout the course. Equivalent to ACCT-815. Prerequisite: take ACCT-2110.

ACCT-8260 Estate Planning (3.00 cr.)

Reviews property titling, methods of transfer and estate documents. Examines gifting strategies, tax compliance and incapacity planning. Reviews estate tax compliance, liquidity and powers of appointment. Explores the taxation of trusts, valuation, the marital deduction, transfer techniques, generation-skipping transfer tax, fiduciaries, income in respect of a decedent and other planning issues.

ACCT-8265 Employee Benefits and Retirement (3.00 cr.)

Explores benefit plans including group life, disability and medical. Will review stock options, stock plans and deferred compensation. Examines the retirement decision, social security benefits and various types of plans. Reviews the qualified plan rules, other tax-advantaged retirement plans, regulatory considerations, factors affecting plan selection, investment considerations and distribution rules.

ACCT-8301 Independent Study (3.00 cr.)

Independent study is intended to provide better students the opportunity to study a topic of their own choice in accounting under professional supervision. Only the student who is prepared to devote considerable time and effort should undertake an independent study. The student contemplating an independent study should first choose a definite area for investigation within accounting and an instructor to sponsor the work. Equivalent to ACCT-870.

ACCT-8965 Integrative Perspective on Accounting Issues (3.00 cr.)

Synthesis of auditing, information systems, financial, managerial, and taxation accounting concepts. Accountant's responsibilities, ethics, and functions in organizations and society. Analysis and applications to business situations. Equivalent to ACCT-865. Prerequisites: take ACCT-3111, ACCT-4251, ACCT-6201, ACCT-6355, ACCT-6331.

ACCT-8999 Graduate Thesis/Project (6.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of three faculty in the College of Business and Public Administration and approved by the dean. Students interested in pursuing a doctorate degree in business should select the thesis option. Equivalent to ACCT-890.

Addictions Studies

ADDS-3200 Screening, Referral, and Treatment Planning (3.00 cr.)

Provides an overview of screening, assessment, referral, and treatment planning for individuals with addiction-related problems. Examines assessment processes in conjunction with specific techniques and methods used with substance abusers. Equivalent to ADDS-521, ADDS-5200.

ADDS-3260 The Adolescent Substance Abuser (3.00 cr.)

Offered in both lecture and televised formats. Examines the prevalence of substance use and abuse in the schools; the etiology of such use/abuse; the pharmacology of abusable drugs as it relates to the physiological, psychological, and social development of youth; and methods of preventing, intervening, and/or treating substance use/abuse among youth and adolescents. Designed for teachers, counselors, and administrators in K-12 schools, as well as parents and other interested members of the community. Equivalent to ADDS-526, ADDS-5260.

ADDS-4150 Addictions: Recovery Process (3.00 cr.)

The recovery process for substance abusers is examined, tracing the stages of the change process from the isolation of precontemplation through action to maintenance and relapse prevention. Students identify and learn specific intervention techniques for motivating and sustaining this process. Equivalent to ADDS-505, ADDS-5150.

ADDS-4180 Substance Abuse: A Systems Approach (3.00 cr.)

Focuses on a systems approach to dealing with drug and alcohol abuse. A systems approach recognizes the impact of cultural, environmental, interpersonal, and intrapersonal influences upon the individual; recognizes individual differences among substance abusers; and develops differential treatment models that take these factors into account. Equivalent to ADDS-518, ADDS-5180.

ADDS-4300 Addictions and Criminal Justice (3.00 cr.)

Examines the interactions between the addictions treatment and criminal justice systems. Identifies the special issues that must be addressed to ensure effective treatment of addicted clients who are being served by the criminal justice system. Equivalent to ADDS-530.

ADDS-4400 Society and Drugs: Controversial Issues (3.00 cr.)

Introduces controversial issues regarding drug use and misuse in contemporary society. Reviews the issues followed by opposing views from addiction professionals, social scientists, and healthcare professionals. Analyzes opposing viewpoints and reach considered judgments. Equivalent to ADDS-540.

ADDS-5100 Substance Abuse: Current Concepts (3.00 cr.)

Examines the physiological, psychological, and sociological aspects of drug abuse and includes historical and contemporary patterns. Examines past and present drug abuse treatment modalities and analyzes the factors and institutions at the local, state, and national level that affect the delivery of drug abuse services. Includes legal and ethical issues in drug abuse. Equivalent to ADDS-500.

ADDS-5220 Clinical Skills in Substance Abuse (3.00 cr.)

An introduction to the theories and techniques used in substance abuse clinical practice. Topics include assessment and diagnosis of substance use disorders, treatment planning, and direct clinical services to substance abusing clients. Equivalent to ADDS-522.

ADDS-5250 Clinical Approaches to Substance Abuse (1.00-3.00 cr.)

Examines a current technique or emerging perspective to the treatment of addictions. Topics may include treatment interventions, client-treatment matching, treatment efficacy, special populations, and clinical issues. May be repeated for credit with a different topic. Equivalent to ADDS-525.

ADDS-5500 Substance Abuse Issues in Healthcare (3.00 cr.)

Provides an introduction to the substance abuse concerns that have an impact on health care. Focuses on the interactions between healthcare professionals and their substance-abusing patients. Equivalent to ADDS-550.

ADDS-5510 Substance Abuse Screening in Healthcare (3.00 cr.)

Prepares health care professionals to screen and appropriately refer patients with suspected substance use disorders. Presents standardized screening instruments applied to cases across healthcare delivery systems. Explains basic principles of motivational interviewing to assist patients in developing a commitment to change. Equivalent to ADDS-551. Prerequisite: take ADDS-5500 or NURS-5500.

ADDS-5520 Disparity and Diversity in Substance Abuse (3.00 cr.)

Introduces the concept of health disparities as applied to substance abuse. Focuses on disparities in access to substance abuse care. Develops skills for intervening more effectively with a diverse group of patients. Equivalent to ADDS-552. Prerequisite: take ADDS-5500 or NURS-5500.

ADDS-6100 Psychopharmacology (3.00 cr.)

Reviews the functions of the human nervous system before exploring the basic principles of psychopharmacology. Examines the historical patterns of use and development, the physiological mechanisms of action, and the various effects resulting from drug use. Equivalent to ADDS-610.

ADDS-6140 Professional Practice (3.00 cr.)

This course addresses federal and state regulations which govern the treatment of substance abusing clients, ethical guidelines for professional practice, and the use of self-help groups with substance-abusing clients. Elements of professional communication and effective case management are addressed. Equivalent to ADDS-604.

ADDS-6200 Gender and Addiction (3.00 cr.)

Examines current research trends and approaches on gender issues in the substance abuse field. The concept of gender will be explored and topics related to a variety of women and men's issues will be examined from a theoretical and clinical perspective. Students will learn strategies to work effectively with gender sensitive topics in the treatment realm. Equivalent to ADDS-620.

ADDS-6300 Families and Addictions (3.00 cr.)

Provides an overview of the interactions between substance abuse and family dynamics. Students learn about the impact that drinking and drug use can have on family life. They also learn how family systems, in turn, may enable addictive drinking or drug use to continue. Equivalent to ADDS-630.

ADDS-6400 Behavioral Health Across the Life Span (3.00 cr.)

This course provides an overview of the human life span from birth to death in relation to behavioral health and addictions. We will examine how abilities, needs, problems, and concerns of people change through life, and how human development is shaped by one's experience within the greater family, social, and cultural systems. Considerations of gender, race, and ethnicity will be explored. Equivalent to ADDS-640.

ADDS-6500 Planning, Managing, and Evaluating Substance Abuse Programs (3.00 cr.)

Discusses the philosophy and historical development of alcoholism and drug abuse services. Reviews the processes involved in planning, managing, and evaluating programs. Equivalent to ADDS-835.

ADDS-6600 Substance Abuse Prevention (3.00 cr.)

Reviews historical developments in substance abuse prevention strategies. Deals with planning, implementation, and evaluation of both school-based and community-based prevention programs. Considers current prevention strategies and future prospects of prevention programming. Equivalent to ADDS-720.

ADDS-6900 Etiology and Epidemiology of Substance Abuse (3.00 cr.)

Selected biological, psychological, and sociocultural perspectives on substance use and abuse are examined. Basic epidemiological research strategies are reviewed. Epidemiological studies on substance use and abuse are evaluated in terms of their implications for etiology, treatment, prevention, and program management. Equivalent to ADDS-825.

ADDS-7100 Screening Motivation and Referral (3.00 cr.)

Presents methods to screen, assess, motivate, and refer clients with suspected substance use disorders. Presents standardized screening and assessment instruments. Describes treatment settings and modalities. Discusses the recovery process from the perspective of the stages of change through which clients progress. Explains the basic principles of motivational interviewing which can be used to assist clients in developing a commitment to change. Equivalent to ADDS-602.

ADDS-7200 Substance Abuse Counseling (3.00 cr.)

Examines issues related to counseling clients with substance abuse problems. Focuses on the analysis of state-of-the-art methods for assessment, treatment planning, client motivation, and behavior change. Equivalent to ADDS-815.

ADDS-7400 Group Techniques (3.00 cr.)

Focuses on group approaches and techniques used in the prevention and treatment of substance abuse. Group process issues and dynamics will be reviewed. Group interventions will be demonstrated and practiced. Equivalent to ADDS-821.

ADDS-7500 Clinical Models of Addiction (3.00 cr.)

Examines clinical theories in current use for addressing addiction-related issues. Models presented include disease models, psychoanalytic formulations, behavioral models, cognitive models, systems theories, and socio-cultural perspectives. Equivalent to ADDS-845.

ADDS-7600 Treating Coexisting Disorders (3.00 cr.)

Reviews the prevalence of coexisting mental and substance use disorders within the United States population. Examines treatment issues and needs of patients with these coexisting disorders. Evaluates current approaches to identifying, assessing, and treating patients with these coexisting disorders. Equivalent to ADDS-850. Prerequisites: take ADDS-7200, ADDS-7500.

ADDS-7700 Clinical Supervision in AODA (3.00 cr.)

Clinical supervision is an essential aspect of developing and maintaining professional AODA services. This course is designed to help students to better understand the role of clinical supervisor in agency activities. Prerequisites: take ADDS-6500, ADDS-7200.

ADDS-8100 Internship: Assessment and Referral (3.00 cr.)

This course provides students with hands-on experience in screening, assessment, and referral of substance-abusing clients in a state licensed (OASA) facility. Equivalent to ADDS-605. Prerequisite: take ADDS-5510 or ADDS-7100.

ADDS-8200 Seminar in Substance Abuse (3.00 cr.)

Examines current research models, trends, and new approaches in the field of substance abuse. Students will participate in topic selection, prepare and lead a review of related literature, offer critical analysis, and discuss the implications for current professional practices. Equivalent to ADDS-855. Prerequisite: take ADDS-6900.

ADDS-8300 Comprehensive Examination (1.00 cr.)

Final course in the Addictions Studies major. Intended to assess students' ability to analyze, synthesize, and evaluate diverse content materials and apply their knowledge to selected issues and problems in the substance abuse field. Equivalent to ADDS-869.

ADDS-8400 Practicum in Addictions Counseling (3.00 cr.)

Provides students with an opportunity to develop basic clinical skills to work with clients who may have substance use disorders. Emphasis placed on identifying people who are at risk for substance use disorders through screening; determining the nature and severity of the substance use disorder through assessment; and modifying substance use behaviors through brief intervention and referral. Equivalent to ADDS-770. Prerequisite: take ADDS-7100.

ADDS-8700 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in addictions under the supervision of faculty. Equivalent to ADDS-870.

ADDS-8800 Internship (4.00 cr.)

Designed to provide the Addictions Studies major with supervised practical experiences in treatment, administration, research, prevention, or education in applied settings. Equivalent to ADDS-880.

ADDS-8810 Advanced Clinical Internship (4.00 cr.)

Offers more breadth in approach to the clinical experience. Intensifies focus on clinical services applied to specific target populations and/or levels of care. Presents case studies including clinical interventions and methods of specific populations. Equivalent to ADDS-881. Prerequisite: take ADDS-8800.

ADDS-8980 Directed Scholarship (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must have received a grade of CR in a designated capstone course. Note: This course is variable (1-2) in credit hours, repeatable (not replaceable), and is P/N/C option. Equivalent to ADDS-898.

Alternative Certification, General

ACA-6110 Initial Field Experiences (1.00 cr.)

Provides opportunities for students to make, implement, and evaluate decisions under supervision while teaching individuals and small groups of children. Placements will be at elementary, middle, and high schools in rural, suburban, and rural settings, including working with students with exceptionalities. Requires a minimum of 30 hours of field experiences. Equivalent to ACA-611, ALTC-603. Prerequisites: take EDUC-3320, EDUC-3321.

ACA-6230 Field Experience Application I (1.00 cr.)

Provides structured formative assessment opportunities for candidates working with their mentors. Specific protocols to facilitate strengthening instruction will be utilized aligned with appropriate standards. This will be aligned with the mentors' work in the Lead Teacher Mentor Learning Community. Prerequisites: take ACA-6110, ACA-6420, ACA-7110.

ACA-6340 Field Experience Application II (1.00 cr.)

Builds on the formative assessment work in Field Experience Application I. In addition to continued work on improving instruction, candidates work with their mentors on additional analyses of student work and data driven instructional strategies as well as action research. This will be aligned with appropriate standards and with the mentors' work in the Lead Teacher Mentor Learning Community. Prerequisites: take ACA-6230, ACA-8110.

ACA-6410 Middle School Curriculum and Instructional Strategies (1.00 cr.)

Explores curriculum and instructional strategies for teaching in the middle school, focusing on the needs of the early adolescent. Note: Students must be capable of working online during the duration of this independent study course. Equivalent to ALTC-609.

ACA-6420 Theory to Practice (3.00 cr.)

Incorporates concepts of effective practice in instruction. Explores theory regarding educational policy, educational psychology, children with exceptionalities, assessment, technology, classroom management, motivation, and educational standards, with particular focus on working with students of promise. Equivalent to ACA-642, ALTC-602. Prerequisites: take EDUC-3320, EDUC-3321.

ACA-7110 Research Based Reading Instruction (3.00 cr.)

Focuses on the application of research-based methods for teaching reading and writing in grades K-8 and 6-12. Emphasis is on teaching skills and strategies in early reading and their continued reinforcement and extension in upper grade content area reading. Special attention is given to secondary mathematics and science teachers as they incorporate reading and writing into their subject areas. Equivalent to ACA-711. Prerequisites: take EDUC-3320, EDUC-3321.

ACA-7220 Teaching English Language Learners (3.00 cr.)

Examines application of linguistic principles and various methods and techniques of language instruction to the teaching of English language skills to individuals learning English as a second language. Emphasizes techniques for effective use of first language skills in second language learning. Examines current curricular, materials, and evaluation best practices. Prerequisites: take ACA-6340, ACA-8220.

ACA-8110 Student Learning and Assessment (3.00 cr.)

Examines current theories of learning, intelligence, and motivation. Provides students with a working knowledge of assessment techniques and how to relate student assessment and views of learning to educational practices and teacher efficiency. Prerequisites: take ACA-6110, ACA-6420, ACA-7110.

ACA-8220 Action Research in Schools (3.00 cr.)

Provides candidates an opportunity to develop a research plan; collect, analyze and interpret their data; and report their findings. Based on findings, candidates will develop an action plan to implement. The course will culminate with candidates presenting their research to an authentic audience of colleagues, principals, and teacher educators. Prerequisites: take ACA-6230, ACA-8110.

ACA-8430 Teacher Leadership (3.00 cr.)

Investigates the role of the reflective teacher leader in improving different facets of school, curriculum, and instructional programs. Provides candidates the opportunity to reflect upon and develop alternative solutions to educational problems while building skills in reflection, collaboration, and leadership. Prerequisites: take ACA-6340, ACA-8220.

ACA-8990 Best Practice in Urban Settings (3.00 cr.)

This is the capstone course of the Master of Arts in Urban Teacher Education. Candidates will present their program portfolios, including four major projects, to a committee of three faculty in order to demonstrate their proficiency in applying theory to practice aligned with the Illinois Professional Teaching Standards. Equivalent to ALTC-607. Prerequisites: take ACA-6340, ACA-8220.

Alternative Certification - Education

ACE-6130 Strategies for Teaching in the Content Areas (3.00 cr.)

Explores integrated content methods including core concepts and teaching strategies in the areas of reading/language arts, science, math, and social sciences for the Governors State University Alternative Certificate Partnership. Equivalent to ACE-613, ALTC-601. Corequisite courses: ACA-6110, ACA-6420, ACA-7110.

ACE-7230 Reflective Teaching I - Management, Planning, and School Culture (3.00 cr.)

Analyzes material in previous coursework as applied to the teaching internship experience. Focuses on classroom management, lesson planning and adapting to school culture based on research on beginning teachers' needs. Equivalent to ALTC-605. Prerequisite: take ACE-6130.

ACE-8330 Reflective Teaching II - Quality Instruction in High Need Schools (3.00 cr.)

Focuses on quality instruction in an urban setting. Analyzes their teaching practice through portfolio development based on the Illinois Professional Teaching Standards and the Elementary Education Content Standards. Equivalent to ALTC-606. Prerequisite: take ACE-7230.

Alternative Certification - Mathematics

ACM-6140 Methods of Teaching Mathematics I (3.00 cr.)

Investigates the content and various models of the mathematics curriculum for middle school grades (6-8) and high schools (9-12) in the U.S. Includes an in-depth study of the NCTM Standards, the Illinois Learning Standards, the Common Core Standards, and the use of various forms of technology as tools for exploring mathematics. Includes clinical experience in secondary schools. Corequisite courses: ACA-6110, ACA-6420, ACA-7110.

ACM-7240 Methods of Teaching Mathematics II (3.00 cr.)

Introduces prospective teachers to the methodology of teaching middle and secondary school mathematics including the use of instructional materials and media (curricular, manipulatives, and technology). Discusses performance-based assessment and the constructivist viewpoint of learning. Explores ways to integrate mathematics into various disciplines (science, social studies, economics.) and apply mathematics to real-world situations. Prerequisite: take ACM-6140.

Alternative Certification - Science

ACS-6150 Methods of Teaching Science I (3.00 cr.)

Surveys the role of science education in the total curriculum. Students will become familiar with contemporary science curricula and methods for teaching science to diverse learners. Corequisite courses: ACA-6110, ACA-6420, ACA-7110.

ACS-7250 Methods of Teaching Science II (3.00 cr.)

Focuses on students creating positive science classroom climates which promote a pluralistic approach to teaching and eliminating gender biases. Students develop inquiry-based activities to motivate secondary school students and involve them in learning. Technology is utilized as a tool and resource for teaching and learning. Diverse methods of learning assessment are developed. Assessment in science education is thoroughly addressed. Prerequisite: take ACS-6150.

ACS-8345 Advanced Methods Secondary Teaching (3.00 cr.)

Examines the use of various forms of technology for exploring mathematics and science. Candidates will develop curricular materials using principals of RtI and differentiated instruction (DI). They will explore different models of best practice in teaching and have opportunities to prepare and present lesson plans and plan high quality assessment to meet the needs of students with diverse learning characteristics. Prerequisite: take ACM-7240 or ACS-7250.

Anthropology

ANTH-3100 Trends in Cross-Cultural Analysis (3.00 cr.)

Acknowledges the centrality of race, culture and ethnicity, religion, and migration in the formation and development of diverse societies and emphasizes the importance of art, science, anthropology, and history as the "story tellers" of human drama, truth, and change. Equivalent to ANTH-310.

ANTH-3200 Humanity and Human Dynamics: A Comparative Study (3.00 cr.)

Examines social and cultural development in a comparative framework. The emphasis is on interdisciplinary theory and approaches concerned with the articulation of collective human consciousness, the political economy, and collective action as they relate to constructing the past and present. Equivalent to ANTH-320.

ANTH-3300 Ecology, Environment, and Culture (3.00 cr.)

Explores cultural models that define the natural order and inform how local people use natural resources to sustain their way of life. Emphasis on the bio-cultural connection, adaptation, and sustainability. Case studies across subsistence systems and settlement patterns are examined. Prerequisite: take ANTH-3100.

ANTH-3500 Archaeology (3.00 cr.)

Provides a general orientation to the history, goals, methods, and important findings of professional archaeologists. Includes considerations of ethics, diversity of approaches within the field, and assessment of claims to knowledge.

ANTH-3501 Beliefs and Believers (3.00 cr.)

Offered in televised format only. An exploration into the nature and function of belief structures or "worldviews" with representatives from a wide variety of religious and secular perspectives. Students will gain some initial exposure to the religious systems of major world religious institutions and develop an understanding of their personal beliefs. Equivalent to ANTH-350.

ANTH-3800 Visual Anthropology (3.00 cr.)

Explores the use of visual media to conduct research and represent social and cultural processes. Emphasis on examining social control, power, and ethical issues related to visual representation of cultures, identities, and heritage.

ANTH-4000 Topics in Anthropology (3.00 cr.)

Explores current theories, approaches, or issues in anthropology. May be offered in lecture, hybrid, or online format. May include fieldwork or a research component.

ANTH-4100 Urban Anthropology (3.00 cr.)

Emphasizes anthropological studies of people living in urban settings. Explores the potential use of cultural anthropological tools for understanding human life in urban settings in both developed and developing nations. Equivalent to ANTH-411.

ANTH-4300 Food, Culture and Society (3.00 cr.)

Explores food consumption and production as complex social and cultural systems. Emphasizes symbols and social relations encoded in food systems. Gender and systems of inequality in various subsistence systems are examined. Studies natural resources and materials sustaining local food patterns and exchanges. Prerequisite: take ANTH-3100.

ANTH-4400 Language and Culture (3.00 cr.)

Provides a detailed overview of the way in which the language and culture of human groups affect each other. Focus is on the consequences of language diversity as a code, linked to a society, found in verbal interaction, and influenced by differences in power.

ANTH-4600 Anthropology In Film (3.00 cr.)

Study of world cultures, past and present, and human nature through the use of classic ethnographic films, texts, and web based resources. Focus is on the development of cross-cultural understanding of central problems of human existence and how social groups address social solidarity, conflict, and change overtime in various physical environments. Equivalent to ANTH-500.

ANTH-4610 Methods and Skills in Cross-Cultural Understanding (3.00 cr.)

Imparts knowledge drawn from theoretical and applied social sciences to examine cross-cultural transactions, diversity, multiculturalism and the problem of difference in a regional, national and international context. Provides an opportunity to develop reflective and reflexive thinking and writing skills that have theoretical and practical application. Prerequisite: take ANTH-3100.

ANTH-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in anthropology under the supervision of the faculty. Equivalent to ANTH-470.

Anthropology and Sociology

ANSO-3100 Gender and Sexuality (3.00 cr.)

Examines anthropological and sociological approaches to understanding the social construction of gender and sexuality. Analyzes the ways in which humans create and enforce gender and sexuality norms, with attention to the intersections of differences in the experiences and social constructions of gender and sexuality.

ANSO-3200 Race and Class (3.00 cr.)

Provides a background in understanding the study of race and class. Topics include: race as a social construct, intersections of race with gender and class, economic opportunities, politics, and employment.

ANSO-3300 Ecology, Environment, and Culture (3.00 cr.)

Explores cultural models that define the natural order and inform how local people use natural resources to sustain their way of life. Emphasis on the bio-cultural connection, adaptation, and sustainability. Case studies across subsistence systems and settlement patterns are examined. Prerequisite: take ANTH-3100.

ANSO-3400 Material Culture (3.00 cr.)

Examines material culture from an interdisciplinary perspective. Emphasis on symbols, meanings, and social relationships encoded in everyday objects. Considers material culture in the construction of collective memory, legacy, and heritage.

ANSO-3500 Music and Society (3.00 cr.)

Exposes students to an art that is both a human universal yet highly variable. Examines a broad range of forms, practices of production, and manner of engagement for musics of different cultures. Develops insights to apply to the analysis of students' own musical milieu.

ANSO-3600 Data Analysis, Social Science (3.00 cr.)

Provides a background in social data analysis, including statistical operations, quantitative reasoning, the opportunity to evaluate academic research, and experience in analyzing quantitative data.

ANSO-3800 Visual Anthropology (3.00 cr.)

Explores the use of visual media to conduct research and represent social and cultural processes. Emphasis on examining social control, power, and ethical issues related to visual representation of cultures, identities, and heritage. Prerequisite: take ANTH-3100 or ANTH-4600.

ANSO-4100 The Anthropology and Sociology of Religion (3.00 cr.)

Imparts knowledge in classical social theory applied to the study of religious beliefs and practices in contemporary societies. Emphasis on applying conceptual tools framed in classical theory to the understanding of social processes that structure religious identities and institutions.

ANSO-4200 Sociology of Organizations (3.00 cr.)

This course provides students a background in understanding the study of social organizations. Topics include: classical theories of organizations, both for-profit and non-profit organizational models, elements of power and politics, hierarchies, and intra-organizational dynamics.

ANSO-4300 Food, Culture, and Society (3.00 cr.)

Explores food consumption and production as complex social and cultural systems. Emphasis on symbols and social relations encoded in food systems. Gender and systems of inequality in various subsistence systems are examined. Natural resources and materials sustaining local food patterns and exchanges are also studied.

ANSO-4400 Theories of Social Science (3.00 cr.)

Provides a systematic and historical approach to the development of metatheoretical perspectives and major theories in the core social sciences, including geography, anthropology, sociology, and political science.

ANSO-4500 Applied Anthropology (3.00 cr.)

Explores applied research and careers in anthropology. Emphasis is on comparative case studies, rapid assessment and evaluation, and ethical issues in applied research and projects.

ANSO-4900 Senior Capstone (3.00 cr.)

This course provides a comprehensive exploration of concepts, methods, and approaches framed in the Anthropology and Sociology major. The course draws on contemporary and classical social theory and sociological and ethnographic accounts.

Art

ART-2304 Intermediate Drawing (3.00 cr.)

Explores a variety of drawing media and techniques. Emphasis on representational and abstract drawing outcomes. Observational and improvisational assignments will be explored and students will also explore the expressive potential of color through various mediums.

ART-3100 Art for Children and Youth (3.00 cr.)

Provides students with a broad theoretical overview of art education for children and youth, ages pre-school through eighth grade. Opportunities will be provided to learn skills and strategies that will enable students to plan, implement, and evaluate instructional strategies in the visual arts.

ART-3300 Interrelational Studies: Art and Music (3.00 cr.)

A study of types of formal organizations in art and music, analogies between styles, and the relation between styles and history. Examines both correspondences and divergences in the history of art and music as they relate to the history of ideas. Equivalent to ART-300.

ART-3301 Photographic Foundations (3.00 cr.)

Introduction to basic camera skills as they are used in the understanding and control of light and the production of images. Course covers basic darkroom processes to produce artistic monochromatic images. Student must have a 35 mm camera with manual adjustments. Equivalent to ART-301.

ART-3302 Black and White Photography II (3.00 cr.)

Builds upon basic photographic practices to develop a more advanced technical command of traditional black and white photography. Presents craftsmanship, darkroom techniques, and conceptual topics in the photographic medium. Introduces to medium and large format cameras. Equivalent to ART-302. Prerequisite: take ART-3301.

ART-3303 Studio Practices (3.00 cr.)

Examines two- and three-dimensional art concepts and methods through a variety of media and projects. Equivalent to ART-303.

ART-3304 Drawing: Studio (3.00 cr.)

Explores a variety of drawing media and techniques. Emphasis on representational drawing and abstract drawing of still life and natural forms using the elements of value, line, shape, texture, and color. Equivalent to ART-304.

ART-3305 Drawing: Life Study (3.00 cr.)

Explores a variety of drawing media and techniques. Emphasis on representational drawing of the human form and drawing concepts and principles. May be repeated with approval of instructor. Equivalent to ART-305.

ART-3306 Digital Photography (3.00 cr.)

Provides a hands-on training in the basic concepts, methodologies, and problem solving strategies of the digital darkroom. Explores digital cameras and scanners as imaging devices, as well as the limitations and possibilities of digital photography compared to traditional imaging. Includes color theory and aesthetics of color photography, direct capture, scanning, enhancements, compositing, manipulations, and high-quality printing. Equivalent to ART-306.

ART-3307 Art Images of Social Justice Movements (3.00 cr.)

Studies types of art and images related to social justice movements such as racial and ethnic minority groups, women's art, sexual orientation, minority groups, and other marginalized communities. Focuses on Western contemporary culture with historical and world examples considered. Equivalent to ART-307.

ART-3309 Stained Glass (3.00 cr.)

Explores the qualities of stained glass and light. Flat glass panels will be designed and constructed using both leaded and copper foil methods. Emphasizes stained glass as a fine art medium. Equivalent to ART-309.

ART-3310 Ceramics (3.00 cr.)

Covers basic concepts of clay handling, including hand-building, wheel methods, glaze formulation, and firing techniques. Equivalent to ART-310.

ART-3311 Introduction to Printmaking (3.00 cr.)

Introduces basic methods for transferring a drawing, photograph, digital image, or painting from one surface to another. Multiple and experimental one-of-a-kind images will be created through the use of silk-screen, intaglio, and lithographic printmaking techniques. Equivalent to ART-311.

ART-3312 Textile Printing (3.00 cr.)

Explores methods of transferring images to fabric, such as silk screen printing, relief printing, and monoprinting. Clothing, length of fabric, or alternative material may be printed. Equivalent to ART-312.

ART-3313 Hand Made Books (3.00 cr.)

Focuses on basic book-binding methods and design using media such as drawing, collage, painting, and printing making. Includes one field trip to an artist book collection. Equivalent to ART-313.

ART-3314 American Art: Diverse Views (3.00 cr.)

This course analyzes American art and architecture from the colonial period to the present. Diverse viewpoints of a multicultural society will be presented. Assessment of major themes in American art by diverse artists will be made. Students will be expected to analyze works by American artists cross-culturally and assess the role of race, ethnicity, class, and gender in the creation and viewing of art. Equivalent to ART-314.

ART-3319 Basic Sculpture Principles (3.00 cr.)

Introduces elementary materials, methods, and tools used in the sculpture studio. Covers basic techniques of modeling, casting, and assemblage using various additive and subtractive methods. Equivalent to ART-319.

ART-3325 Advanced Problems in Design (3.00 cr.)

Examines advanced problems of two- and three-dimensional design. Studio assignments focus on problem-solving within various art media. Equivalent to ART-325.

ART-3360 Art Seminar: Concepts Methods (3.00 cr.)

Explores artistic concepts, theories, and research methodology. Presentations and discussions apply standards of evaluation, theories of imitation and abstraction, expression, and decorum to specific art imagery. Equivalent to ART-360.

ART-3361 Non-Traditional Photography (3.00 cr.)

Explores the use of unique aesthetics plastic cameras. Provides an affordable step into medium-format photography, while focusing on alternative creative darkroom techniques and presentation modes. Equivalent to ART-361. Prerequisite: take ART-3306.

ART-3371 Intermediate Drawing (3.00 cr.)

Explores a variety of drawing media and techniques building on previous drawing course. Subject matter will continue to include the still life, the figure, and other personal imagery. Projects will be assigned and various materials will be introduced and required simultaneously with the use of mixed media techniques. Equivalent to ART-371. Prerequisite: take ART-3304.

ART-4000 Topics in Art (1.00-3.00 cr.)

A series of presentations using outside resources, specific developments, and skills; new creative approaches and issues are considered. Series may be repeated for different subjects. Equivalent to ART-500.

ART-4371 Advanced Drawing (3.00 cr.)

Advanced study of the principles and techniques of drawing. Through independent projects, students further develop their observation and interpretive skills to produce works of highly individual style and original expression. Emphasis placed on drawing as an independent discipline in the visual arts. Prerequisite: take ART-2304.

ART-4413 Ceramics: Wheel Throwing (3.00 cr.)

Further explores the ceramic media with primary focus upon the potter's wheel. Demonstrates the techniques of wheel throwing to make the basic pottery forms. Provides an appreciation of technique, function, and the aesthetics of ceramic form as well as a greater sense of clay, glaze, and firing. Equivalent to ART-413. Prerequisite: take ART-3310.

ART-4414 Ceramics: Low Fire (3.00 cr.)

Continued exploration of the ceramic media with primary emphasis on low fire materials. Covers lower firing temperatures and the many options in color, glazes, and construction methods. Teaches making relief tiles and containers and investigating decorative techniques. Explores Maiolica glaze, over-glazes, raku, and terrasilata as possible surface treatments. Equivalent to ART-414. Prerequisite: take ART-3310.

ART-4415 Sculpture Materials and Methods (3.00 cr.)

Introduces three-dimensional thought, form, and space. Explores various materials and methods through projects covering a broad range of sculptural concerns. Introduces plaster casting and carving, mold-making, wax casting, wax working, and assemblage. Covers the safe use of a variety of hand and power tools. May be repeated with consent of instructor. Equivalent to ART-415. Prerequisite: take ART-3319.

ART-4435 Photographic Imaging Methods (3.00 cr.)

Presents the basis of modern photographic image making technologies. Investigates the physical and chemical foundations of the conventional photographic process, including the nature of light, human vision, and optics. The course also covers digital formation, color management in digital imaging, and elements of visual data processing by computers. Equivalent to ART-435.

ART-4436 Metal Fabrication I (3.00 cr.)

Covers the basics of the metals experience. Explores the problems of metal sculpture, forming, and fabrication techniques. May be repeated with permission of instructor. Equivalent to ART-436. Prerequisite: take ART-4415.

ART-4440 Photography in Artificial Light (3.00 cr.)

Course covers the use of electronic flash, quartz lighting, studio strobe techniques, and lighting management as they are applied to photographic portraiture, studio still life, and other objects in a studio environment. Course also covers view camera techniques and copy work. Equivalent to ART-440. Prerequisite: take ART-3301.

ART-4441 Wood Sculpture I (3.00 cr.)

Investigates the beginnings of wood as an art medium using both traditional and non-traditional methods to create functional, non-functional and conceptual work. Equivalent to ART-441. Prerequisite: take ART-4415.

ART-4442 Advanced Art History Seminar (3.00 cr.)

Provides an undergraduate review of the methodology of art history, review of research techniques, and forms of art historical writing. Course permits students to do specialized research on a particular topic and offers a forum for oral presentation, written critiques, and group discussion. Equivalent to ART-442.

ART-4445 Figure Sculpture I (3.00 cr.)

Explores entry-level figure with basic bust and small-scale figure modeling. Covers techniques of clay building from armature to plaster or wax castings. Equivalent to ART-445. Prerequisite: take ART-4415.

ART-4501 Drawing: Advanced Life Study (3.00 cr.)

Develops the student's ability to render the human form representationally and abstractly. Students will work in charcoal, various chinks, pencils, and inks. Course may be repeated with approval of instructor. Equivalent to ART-501.

ART-4502 Drawing: Contemporary Approach (3.00 cr.)

Offers opportunities with combined media. Encourages and employs both intuitive and analytical approaches. Emphasizes drawing as an independent art discipline. Equivalent to ART-502.

ART-4503 Sculpture Parks and Public Art (2.00-3.00 cr.)

Studies the phenomenon and evolution of sculpture parks through art historical observations about three dimensional public art, using the Governors State University Nathan Manilow Sculpture Park as a point of departure. Develops skills in critical analysis and art appreciation through mastery of the fundamental principles of art and design. There will be interaction with art available in local communities. Equivalent to ART-503.

ART-4504 Enhancing Creativity (3.00 cr.)

Explores creativity through exercises, activities, and group discussions, and examines the process of creativity through research, reading lists, and observation. Utilizes current models and methods. A studio art component will provide a practical experience for students. Equivalent to ART-504.

ART-4505 Worlds of Art (3.00 cr.)

This Internet course compares art objects from differing contexts and diverse geographical world areas and contrasts the imagery, cultural circumstances, and world view within which the art was created and functioned. Class discussions include interaction with instructor and experts on particular objects as guest correspondents utilize a restricted listserv and the world wide web. Equivalent to ART-5505, ART-505.

ART-4508 Advanced Stained Glass (3.00 cr.)

Expanding on the uses and qualities of light, color, and line covered in ART-309, explores more thoroughly the concepts of design, color theory, and the history of stained glass from its beginnings to current trends in the contemporary glass art movement. Covers traditional and non-traditional methods of stained glass construction and design. Also covers kiln-working techniques such as slumping, fusing, paté de verre, and enameling. Equivalent to ART-508, ART-5508. Prerequisite: take ART-3309.

ART-4509 Electronic Drawing and Design (3.00 cr.)

Focuses on the creative potential of computer images in art and design. Use of high-end paint software on PC and MAC platforms to develop drawings and paintings as stand alone images and as design elements. The course emphasizes exploration and problem-solving techniques to learn image development and manipulation through direct drawing input, imported images, and the application of filters and special effects. Images are output in a variety of methods. Equivalent to ART-5509, ART-509. Prerequisite: take ART-3325.

ART-4514 American Art (3.00 cr.)

A survey of Colonial, 18th century, and 19th century architecture, painting, sculpture, decorative, and graphic arts. In addition to lectures and required readings, this course will include student research and oral presentations on selected topics. Equivalent to ART-514.

ART-4515 20th Century Art: Europe and the Americas (3.00 cr.)

Surveys 20th century art and architecture and familiarizes the student with the art, philosophies, socio-political, and intellectual climate of the period. Analyzes paintings, sculpture, graphic arts, and architecture from different cultural perspectives. Equivalent to ART-515.

ART-4516 Great Artists (3.00 cr.)

Provides an in-depth analysis of a select group of master artists. Examines the lives and works of eminent artists and the social, political, and artistic climate in which they worked. Also analyzes thematic and stylistic development, theoretical concerns of the artists, and their influence on other artists. Equivalent to ART-516.

ART-4518 Women Artists (3.00 cr.)

A historical survey of Western female artists with special emphasis on artists of the 19th and 20th centuries. Examines the lives and works of eminent female artists and the social, political, and artistic climate in which they worked. There will be an analysis of the thematic and stylistic development and theoretical concerns of female artists and a comparative analysis between male and female expressions in the visual arts. Equivalent to ART-518.

ART-4520 Art in Context (3.00 cr.)

Art objects from the European tradition before the 19th century are selected for study with a view to artistic theories, analysis of symbolic content, and sociological exploration. Equivalent to ART-520.

ART-4521 Art and Cultures of the South Pacific (3.00 cr.)

A survey of traditional art from the South Pacific, including the islands of Polynesia, Melanesia, Micronesia, and the island continent of Australia. Examines the stylistic classifications and ethnographic contexts. Equivalent to ART-521.

ART-4523 Pre-Columbian Art Culture (3.00 cr.)

Survey of the art and architecture of ancient America with reference to archaeology and early historic descriptions. Emphasizes specific regions listed in course subheading. Students may repeat this course for up to six hours under different subheadings. Equivalent to ART-523.

ART-4525 Native American Art and Societies (3.00 cr.)

A survey of North American Indian art from prehistoric contexts to the 19th century with attention to eastern United States, greater southwest, prairies, plains, and Pacific coast. Equivalent to ART-525.

ART-4527 African Art and Cultures (3.00 cr.)

Survey of art in African archaeology and the styles and functions of art in traditional societies of west or central Africa. Students may repeat this course for up to six hours under different subheadings. Equivalent to ART-5527, ART-527.

ART-4528 Digital Motion Graphics (3.00 cr.)

Digital motion graphics is a course designed for the advanced electronic imaging student to transform enhanced computer images into time line motion studies. Course covers the animation of digital images, the placement of images in a time sequence, the addition of a digitally captured and corrected sound track, and 3D title graphics. Equivalent to ART-5528, ART-528. Prerequisite: take ART-4509 or ART-4544.

ART-4530 Asian Art and Thought (3.00 cr.)

Art objects from the Far East or Indian Asia are selected for lectures, oral reports, and group discussion. The object's relation to specific contexts of human behavior is examined, as well as the ramifications of style in noting uniqueness and commonality. May be repeated for up to six hours under different subheadings. Equivalent to ART-530.

ART-4532 Advanced Topics in Sculpture (3.00 cr.)

Art objects from the Far East or Indian Asia are selected for lectures, oral reports, and group discussion. The object's relation to specific contexts of human behavior is examined, as well as the ramifications of style in noting uniqueness and commonality. May be repeated for up to six hours under different subheadings. Equivalent to ART-5532, ART-532. Prerequisites: take ART-4441, ART-4436, ART-4445.

ART-4533 Mixed Media Sculpture (3.00 cr.)

Emphasizes various construction methods for the integrations of a broad range of materials and processes in three or more sculpture media. Equivalent to ART-533. Prerequisite: take ART-4415.

ART-4534 Design for Electronic Publishing (3.00 cr.)

Course emphasizes digital design of documents for print or electronic publishing, including dynamic web pages. Equivalent to ART-534. Prerequisites: take ART-3325 and take ART-5509 or ART-4544.

ART-4535 Metal Fabrication II (3.00 cr.)

Structured towards the sculpture major with prior metals experience in an advanced setting. Explores the problems of metal sculpture, forming, and fabrication techniques. May be repeated with permission of instructor. Equivalent to ART-535. Prerequisite: take ART-4436.

ART-4536 Sculpture: Metal II (3.00 cr.)

Continuation of ART-4535. Focuses on problems of metal casting, fusion welding, soldering, and brazing. Equivalent to ART-536. Prerequisite: take ART-4535.

ART-4541 Wood Sculpture II (3.00 cr.)

Discusses advanced investigations of wood as an art medium using both traditional and non-traditional methods to create functional, non-functional, and conceptual work. May be repeated for credit. Equivalent to ART-541. Prerequisite: take ART-4441.

ART-4542 History of Photography (3.00 cr.)

Surveys significant events, movements, and practitioners in the history of photography from 1826 to the present. The course discusses both technical and aesthetic issues as they pertain to the use of photography as an expressive medium in artistic, social, and cultural contexts. Equivalent to ART-542. Prerequisite: take ART-3301.

ART-4543 Ceramic Sculpture (3.00 cr.)

Explores sculptural forms using the clay medium. Examines various clay bodies and glazing techniques. May be repeated with approval of instructor. Equivalent to ART-5543, ART-543. Prerequisite: take ART-3304 or ART-3305.

ART-4544 Digital Photographic Imaging (3.00 cr.)

Introduces the use of digital processing for the purposes of enhancing photographic imagery as both a corrective device and as a means of creative aesthetic collage. Equivalent to ART-5544, ART-544. Prerequisite: take ART-3325.

ART-4545 Figure Sculpture II (3.00 cr.)

Explores both small and mid-scale figures in static and motion poses as well as advanced mold making and casting techniques. Explores and refines techniques of clay building from armature to plaster or wax castings. May be repeated for credit. Equivalent to ART-545. Prerequisite: take ART-4445.

ART-4546 Advanced Electronic Software Workshop (1.00 cr.)

Advanced intensive course covering either smaller auxiliary imaging software or significant method upgrades. May be taken more than once. Prerequisite Equivalent to ART-546. Prerequisite: take ART-4509 or ART-4544.

ART-4549 Photography: Combined Color Processes (3.00 cr.)

Covers color theory and aesthetic practice using negative-to-positive and positive-to-positive printing methods. Emphasis on color balance, filtration, and the aesthetic use of color in imaging. Equivalent to ART-5549, ART-549. Prerequisite: take ART-3301.

ART-4551 Advanced Topics in Figure Sculpture (3.00 cr.)

Explores use of the figure as a compositional element via mid-and large-scale figures in both static poses as well as movement. Covers mass production techniques of figure casting. Explores and further refines techniques of clay building from armature to plaster or wax castings. May be repeated for credit. Equivalent to ART-5551, ART-551. Prerequisite: take ART-4545.

ART-4552 Ceramics: Methods and Materials (3.00 cr.)

Examines ceramic construction processes, clay and glaze materials, firing processes, and use of equipment. Provides a more thorough understanding of material characteristics and processes, sharpen their firing skills, and an understanding through a dialogue about theory and content in ceramics. Equivalent to ART-552. Prerequisite: take ART-3310.

ART-4554 Documentary Photography (3.00 cr.)

Exploration of one of conventional photography's mainstream traditions, the photographic document. Students will explore as groups or individually to produce a photographic documentary of the subject of their choice. Equivalent to ART-554. Prerequisite: take ART-3301.

ART-4555 Painting Composition (3.00 cr.)

For advanced painting students. Specifically emphasizes problems of composition, formal concerns, content, and stimulus. Allows each student maximum individual instruction in a formal group course. Course may be repeated with approval of instructor. Equivalent to ART-5555, ART-555.

ART-4556 Ceramics: Multiples (3.00 cr.)

Covers casting and mold-making and expands the ideas surrounding the efficacy of sculptures in multiples. Explores the decorative, conceptual, and sculptural possibilities working with multiple pieces afford. Works created will range from simple relief tiles to complex multi-part pieces. Equivalent to ART-556. Prerequisites: take ART-3310, ART-3314, or ART-4543.

ART-4557 Printmaking: Combined Media (3.00 cr.)

Series of collaborative classes mixing printmaking with another media. This class may be repeated for different collaborations. Equivalent to ART-557. Prerequisites: take ART-3311, ART-3312.

ART-4558 Painting and Drawing Composition (3.00 cr.)

For advanced undergraduate and graduate students in painting and drawing. Emphasizes problems of composition and relationship between painting and drawing. Students present a written proposal on the content of their paintings. Course may be repeated with approval of instructor. Equivalent to ART-558.

ART-4561 Painting: Development of a Theme (3.00 cr.)

Emphasizes the development of a theme or motif in drawing and painting in producing a consistent body of work. May be repeated with approval of instructor. Equivalent to ART-561.

ART-4562 Advanced Wheel Throwing (3.00 cr.)

Continues the exploration of the ceramic media focusing on advanced techniques using the potter's wheel. Builds upon previous basic techniques of the wheel and advances towards the creation of complex sculptural forms, which combines multiple thrown components. Provides an appreciation of technique, function, and the aesthetics of ceramic form as well as a greater sense of clay, glaze, and firing. Equivalent to ART-562. Prerequisite: take ART-4413.

ART-4563 Painting: Multi-Level (3.00 cr.)

For students of varying levels of artistic development. Students expected to express themselves visually and demonstrate ability to analyze and criticize works in class discussion and individual proposals. May be repeated with approval of instructor. Equivalent to ART-563.

ART-4564 Ceramics: Activating the Object (3.00 cr.)

Considers the sculptural object as merely a starting point for performance or installation. Questions the sculptural object and in particular the ceramic object in its traditional role as a decorative or functional singular piece. Utilizes multiples, performance, and sight specific installation as a means to activating the object within a student's work. Equivalent to ART-564. Prerequisites: take ART-3310, ART-3314, or ART-4543.

ART-4565 3D Modeling (3.00 cr.)

Use industry standard animation software to construct detailed computer based 3D models. Explore the process of creating an environment. Prop a character with several surface editing techniques. Apply translate, rotate, and scale tools to manipulate the geometric components while learning how to create materials, texture maps, cameras and lighting to create desired mood and atmosphere. Equivalent to ART-565.

ART-4566 3D Animation (3.00 cr.)

Applies the principles of animation in a 3D computer environment by utilizing the basic concepts of timing, weight and anticipation. Explores the process of creating a 3D animation using keyframing and rigging techniques to set up model for animation. Equivalent to ART-566.

ART-4567 Printmaking: New Media (3.00 cr.)

Integrates contemporary art practices with traditional printmaking processes. ART-4567 may be repeated with the instructor's approval. Equivalent to ART-567. Prerequisite: take ART-3311 or ART-3312.

ART-4568 Combined Media (3.00 cr.)

A series of collaborative classes utilizing mixed media. Series may be repeated for different collaborations. Equivalent to ART-568. Prerequisite: take ART-3310.

ART-4570 Introduction to Non-toxic Printmaking (3.00 cr.)

Uses non-toxic materials and techniques to produce fine art hand-pulled lithographs and etchings. Students will create imagery on polyester lithographic plates with litho pencils and crayons, ballpoint pen, marker, and toner washes. Etchings will use ImagOn film and hand-drawn methods. Small limited editions and experimental one-of-a-kind images will be made. Equivalent to ART-570. Prerequisite: take ART-3325.

ART-4571 Lithography (3.00 cr.)

In this course the student will learn the techniques and process to produce a fine art hand-pulled lithograph using newly developed non-toxic materials. Students will create imagery on polyester lithographic plates with litho pencils and crayons, ballpoint pen, marker, and toner washes. Small limited editions and experimental one-of-a-kind images will be made. Equivalent to ART-571. Prerequisites: take ART-3325, ART-4570.

ART-4572 Printmaking: Waterbase Silkscreen (3.00 cr.)

Explores the basic fundamentals of waterbase silkscreen printmaking. Includes some advanced techniques and concentrates on the artistic and creative application of the medium. Course may be repeated with approval of instructor. Equivalent to ART-5572, ART-572. Prerequisite: take ART-3304 or ART-3305.

ART-4573 Printmaking: Relief (3.00 cr.)

The primary intent of the course is the development of the student's individual imagery through the process of black and white or color relief printmaking. Processes may include woodcut, linoleum block, and/or photopolymer plates. Emphasis will be placed on the planning, proofing, and reworking of the image, as well as short editioning. This course may be repeated for credit with permission of the instructor. Equivalent to ART-5573, ART-573. Prerequisite: take ART-3304 or ART-3305.

ART-4574 Printmaking: Intaglio (3.00 cr.)

This course examines techniques unique to intaglio printmaking, such as hard and soft ground etching, aquatint, and some advanced and experimental techniques. The methods used in the course are non-toxic innovations which avoid hazardous materials used in traditional etching. This includes photo imaging with Imago film and learning how to make a proper halftone positive. Emphasis is placed on the student's original imagery through planning, proofing, and reworking to a resulting consistent edition of prints, as well as unique prints, which are not editioned, and state prints. Course may be repeated with instructor's permission. Equivalent to ART-574. Prerequisite: take ART-3304 or ART-3305.

ART-4581 Printmaking: Advanced Studio (3.00 cr.)

Offers students the opportunity to work with monoprint and collagraph techniques. Monoprint, a direct and unique printmaking method, enables the student to expand known procedures and to experiment widely with drawing and painting. Collagraph invites application of both intaglio and relief printing from one handbuilt plate. Using the techniques together gives a strong combined imagery experience. Equivalent to ART-5581, ART-581.

ART-4585 Printmaking: Computer Applications (3.00 cr.)

This course allows advanced printmaking students to composite computer and hand-drawn imagery in silk-screen, lithographic, or intaglio prints. Students integrate computer derived imagery through photographic techniques to the printmaking matrix. Emphasis is on the creative application and combination of imagery. Equivalent to ART-585. Prerequisites: take ART-4509 or ART-4544 and take ART-4571, ART-4572, or ART-4574.

ART-4589 Intermediate Printmaking (3.00 cr.)

Develops technical, conceptual, and improvisational abilities within the framework of traditional and contemporary printmaking. This course may be repeated with the instructor's approval. Equivalent to ART-589. Prerequisite: take ART-3311 or ART-3312.

ART-4599 Advanced Printmaking (3.00 cr.)

Offers individual instruction in one or more print media within a formal group setting. Equivalent to ART-599. Prerequisites: take ART-4589, ART-4567.

ART-4700 Independent Study (1.00-3.00 cr.)

Individual reading, research, and/or project in art under the supervision of the faculty. Equivalent to ART-470.

ART-4800 Internship (3.00-9.00 cr.)

Provides the undergraduate Art degree-seeking student with supervised practical experiences in applied settings, both on and off campus. Course may be repeated. Equivalent to ART-485.

ART-4980 Senior Project (3.00 cr.)

Culminating project for Art majors to be taken in the last term of undergraduate study. Students select any one or combination of art disciplines: art history, ceramics, design, digital imaging drawing, painting, photography, printmaking, or sculpture. Equivalent to ART-490.

ART-6000 Topics in Art (1.00-3.00 cr.)

A series of presentations using outside resources, specific developments, and skills; new creative approaches and issues are considered. Series may be repeated for different subjects. Equivalent to ART-500.

ART-6100 Art for Children and Youth (3.00 cr.)

Provides students with a broad theoretical overview of art education for children and youth, ages pre-school through eighth grade. Opportunities will be provided to learn skills and strategies that will enable students to plan, implement, and evaluate instructional strategies in the visual arts.

ART-6371 Advanced Drawing (3.00 cr.)

Advanced study of the principles and techniques of drawing. Through independent projects, students further develop their observational and interpretive skills to produce works of highly individual style and original expression. Emphasis placed on drawing as an independent discipline in the visual arts.

ART-6501 Drawing: Advanced Life Study (3.00 cr.)

Develops the student's ability to render the human form representationally and abstractly. Students will work in charcoal, various chinks, pencils, and inks. Course may be repeated with approval of instructor. Equivalent to ART-501.

ART-6502 Drawing: Contemporary Approach (3.00 cr.)

Offers opportunities with combined media. Encourages and employs both intuitive and analytical approaches. Emphasizes drawing as an independent art discipline. Equivalent to ART-502.

ART-6503 Sculpture Parks and Public Art (2.00-3.00 cr.)

Studies the phenomenon and evolution of sculpture parks through art historical observations about three dimensional public art, using the Governors State University Nathan Manilow Sculpture Park as a point of departure. Develops skills in critical analysis and art appreciation through mastery of the fundamental principles of art and design. There will be interaction with art available in local communities. Equivalent to ART-503.

ART-6504 Enhancing Creativity (3.00 cr.)

Explores creativity through exercises, activities, and group discussions, and examines the process of creativity through research, reading lists, and observation. Utilizes current models and methods. A studio art component will provide a practical experience for students. Equivalent to ART-504.

ART-6505 Worlds of Art (3.00 cr.)

This Internet course compares art objects from differing contexts and diverse geographical world areas and contrasts the imagery, cultural circumstances, and world view within which the art was created and functioned. Class discussions include interaction with instructor and experts on particular objects as guest correspondents utilize a restricted listserv and the world wide web. Equivalent to ART-5505, ART-505.

ART-6508 Advanced Stained Glass (3.00 cr.)

Expanding on the uses and qualities of light, color, and line covered in ART-3309, explores more thoroughly the concepts of design, color theory, and the history of stained glass from its beginnings to current trends in the contemporary glass art movement. Covers traditional and non-traditional methods of stained glass construction and design. Also covers kiln-working techniques such as slumping, fusing, pate' de verre, and enameling. Equivalent to ART-5508, ART-508. Prerequisite: take ART-3309.

ART-6509 Electronic Drawing and Design (3.00 cr.)

Focuses on the creative potential of computer images in art and design. Use of high-end paint software on PC and MAC platforms to develop drawings and paintings as stand alone images and as design elements. The course emphasizes exploration and problem-solving techniques to learn image development and manipulation through direct drawing input, imported images, and the application of filters and special effects. Images are output in a variety of methods. Equivalent to ART-5509, ART-509. Prerequisite: take ART-3325.

ART-6514 American Art (3.00 cr.)

A survey of Colonial, 18th century, and 19th century architecture, painting, sculpture, decorative, and graphic arts. In addition to lectures and required readings, this course will include student research and oral presentations on selected topics. Equivalent to ART-514.

ART-6515 20th Century Art: Europe and the Americas (3.00 cr.)

Surveys 20th century art and architecture and familiarizes the student with the art, philosophies, socio-political, and intellectual climate of the period. Analyzes paintings, sculpture, graphic arts, and architecture from different cultural perspectives. Equivalent to ART-515.

ART-6516 Great Artists (3.00 cr.)

Provides an in-depth analysis of a select group of master artists. Examines the lives and works of eminent artists and the social, political, and artistic climate in which they worked. Also analyzes thematic and stylistic development, theoretical concerns of the artists, and their influence on other artists. Equivalent to ART-516.

ART-6518 Women Artists (3.00 cr.)

A historical survey of Western female artists with special emphasis on artists of the 19th and 20th centuries. Examines the lives and works of eminent female artists and the social, political, and artistic climate in which they worked. There will be an analysis of the thematic and stylistic development and theoretical concerns of female artists and a comparative analysis between male and female expressions in the visual arts. Equivalent to ART-518.

ART-6520 Art in Context: (3.00 cr.)

Art objects from the European tradition before the 19th century are selected for study with a view to artistic theories, analysis of symbolic content, and sociological exploration. Equivalent to ART-520.

ART-6521 Art and Cultures of the South Pacific (3.00 cr.)

A survey of traditional art from the South Pacific, including the islands of Polynesia, Melanesia, Micronesia, and the island continent of Australia. Examines the stylistic classifications and ethnographic contexts. Equivalent to ART-521.

ART-6523 Pre-Columbian Art and Cultures (3.00 cr.)

Survey of the art and architecture of ancient America with reference to archaeology and early historic descriptions. Emphasizes specific regions listed in course subheading. Students may repeat this course for up to six hours under different subheadings. Equivalent to ART-523.

ART-6525 Native American Art and Societies (3.00 cr.)

A survey of North American Indian art from prehistoric contexts to the 19th century with attention to eastern United States, greater southwest, prairies, plains, and Pacific coast. Equivalent to ART-525.

ART-6527 African Art and Cultures (3.00 cr.)

Survey of art in African archaeology and the styles and functions of art in traditional societies of west or central Africa. Students may repeat this course for up to six hours under different subheadings. Equivalent to ART-5527, ART-527.

ART-6528 Digital Motion Graphics (3.00 cr.)

Digital motion graphics is a course designed for the advanced electronic imaging student to transform enhanced computer images into time line motion studies. Course covers the animation of digital images, the placement of images in a time sequence, the addition of a digitally captured and corrected sound track, and 3D title graphics. Equivalent to ART-5528, ART-528. Prerequisites: take ART-4509, ART-6509, ART-4544, or ART-6544.

ART-6530 Asian Art and Thought (3.00 cr.)

Art objects from the Far East or Indian Asia are selected for lectures, oral reports, and group discussion. The object's relation to specific contexts of human behavior is examined, as well as the ramifications of style in noting uniqueness and commonality. May be repeated for up to six hours under different subheadings. Equivalent to ART-530.

ART-6532 Advanced Topics in Sculpture (3.00 cr.)

Art objects from the Far East or Indian Asia are selected for lectures, oral reports, and group discussion. The object's relation to specific contexts of human behavior is examined, as well as the ramifications of style in noting uniqueness and commonality. May be repeated for up to six hours under different subheadings. Equivalent to ART-5532, ART-532. Prerequisites: take ART-4441, ART-4436, ART-4445.

ART-6533 Mixed Media Sculpture (3.00 cr.)

Emphasizes various construction methods for the integrations of a broad range of materials and processes in three or more sculpture media. Equivalent to ART-533. Prerequisite: take ART-4415.

ART-6534 Design for Electronic Publishing (3.00 cr.)

Course emphasizes digital design of documents for print or electronic publishing, including dynamic web pages. Equivalent to ART-534. Prerequisites: take ART-3325 and take ART-5509 or ART-4544.

ART-6535 Metal Fabrication II (3.00 cr.)

Structured towards the sculpture major with prior metals experience in an advanced setting. Explores the problems of metal sculpture, forming, and fabrication techniques. May be repeated with permission of instructor. Equivalent to ART-535. Prerequisite: take ART-4436.

ART-6536 Sculpture: Metal II (3.00 cr.)

Continuation of ART-6535. Focuses on problems of metal casting, fusion welding, soldering, and brazing. Equivalent to ART-536. Prerequisite: take ART-4535.

ART-6541 Wood Sculpture II (3.00 cr.)

Discusses advanced investigations of wood as an art medium using both traditional and non-traditional methods to create functional, non-functional, and conceptual work. May be repeated for credit. Equivalent to ART-541. Prerequisite: take ART-4441.

ART-6542 History of Photography (3.00 cr.)

Surveys significant events, movements, and practitioners in the history of photography from 1826 to the present. The course discusses both technical and aesthetic issues as they pertain to the use of photography as an expressive medium in artistic, social, and cultural contexts. Equivalent to ART-542. Prerequisite: take ART-3301.

ART-6543 Ceramic Sculpture (3.00 cr.)

Explores sculptural forms using the clay medium. Examines various clay bodies and glazing techniques. May be repeated with approval of instructor. Equivalent to ART-5543, ART-543. Prerequisite: take ART-3304 or ART-3305.

ART-6544 Digital Photographic Imaging (3.00 cr.)

Introduces the use of digital processing for the purposes of enhancing photographic imagery as both a corrective device and as a means of creative aesthetic collage. Equivalent to ART-5544, ART-544. Prerequisite: take ART-3325.

ART-6545 Figure Sculpture II (3.00 cr.)

Explores both small and mid-scale figures in static and motion poses as well as advanced mold making and casting techniques. Explores and refines techniques of clay building from armature to plaster or wax castings. May be repeated for credit. Equivalent to ART-545. Prerequisite: take ART-4445.

ART-6546 Advanced Electronic Software Workshop (1.00 cr.)

Advanced intensive course covering either smaller auxiliary imaging software or significant method upgrades. May be taken more than once. Prerequisite Equivalent to ART-546. Prerequisites: take ART-4509, ART-6509, ART-4544, or ART-6544.

ART-6549 Photography: Combined Color Processes (3.00 cr.)

Covers color theory and aesthetic practice using negative-to-positive and positive-to-positive printing methods. Emphasis on color balance, filtration, and the aesthetic use of color in imaging. Equivalent to ART-5549, ART-549. Prerequisite: take ART-3301.

ART-6551 Advanced Topics in Figure Sculpture (3.00 cr.)

Explores use of the figure as a compositional element via mid- and large-scale figures in both static poses as well as movement. Covers mass production techniques of figure casting. Explores and further refines techniques of clay building from armature to plaster or wax castings. May be repeated for credit. Equivalent to ART-5551, ART-551. Prerequisite: take ART-4545 or ART-6545.

ART-6552 Ceramics: Methods and Materials (3.00 cr.)

Examines ceramic construction processes, clay and glaze materials, firing processes, and use of equipment. Provides a more thorough understanding of material characteristics and processes, sharpen their firing skills, and an understanding through a dialogue about theory and content in ceramics. Equivalent to ART-552. Prerequisite: take ART-3310.

ART-6554 Documentary Photography (3.00 cr.)

Exploration of one of conventional photography's mainstream traditions, the photographic document. Students will explore as groups or individually to produce a photographic documentary of the subject of their choice. Equivalent to ART-554. Prerequisite: take ART-3301.

ART-6555 Painting Composition (3.00 cr.)

For advanced painting students. Specifically emphasizes problems of composition, formal concerns, content, and stimulus. Allows each student maximum individual instruction in a formal group course. Course may be repeated with approval of instructor. Equivalent to ART-555, ART-555.

ART-6556 Ceramics: Multiples (3.00 cr.)

Covers casting and mold-making and expands the ideas surrounding the efficacy of sculptures in multiples. Explores the decorative, conceptual, and sculptural possibilities working with multiple pieces afford. Works created will range from simple relief tiles to complex multi-part pieces. Equivalent to ART-556. Prerequisites: take ART-3310 and take ART-3314, ART-4543, or ART-6543.

ART-6557 Printmaking: Combined Media (3.00 cr.)

Series of collaborative classes mixing printmaking with another media. This class may be repeated for different collaborations. Equivalent to ART-557. Prerequisites: take ART-3311, ART-3312.

ART-6558 Painting and Drawing Composition (3.00 cr.)

For advanced undergraduate and graduate students in painting and drawing. Emphasizes problems of composition and relationship between painting and drawing. Students present a written proposal on the content of their paintings. Course may be repeated with approval of instructor. Equivalent to ART-558.

ART-6561 Painting: Development of a Theme (3.00 cr.)

Emphasizes the development of a theme or motif in drawing and painting in producing a consistent body of work. May be repeated with approval of instructor. Equivalent to ART-561.

ART-6562 Advanced Wheel Throwing (3.00 cr.)

Continues the exploration of the ceramic media focusing on advanced techniques using the potter's wheel. Builds upon previous basic techniques of the wheel and advances towards the creation of complex sculptural forms, which combines multiple thrown components. Provides an appreciation of technique, function, and the aesthetics of ceramic form as well as a greater sense of clay, glaze, and firing. Equivalent to ART-562. Prerequisite: take ART-4413.

ART-6563 Painting: Multi-Level (3.00 cr.)

For students of varying levels of artistic development. Students expected to express themselves visually and demonstrate ability to analyze and criticize works in class discussion and individual proposals. May be repeated with approval of instructor. Equivalent to ART-563.

ART-6564 Ceramics: Activating the Object (3.00 cr.)

Considers the sculptural object as merely a starting point for performance or installation. Questions the sculptural object and in particular the ceramic object in its traditional role as a decorative or functional singular piece. Utilizes multiples, performance, and sight specific installation as a means to activating the object within a student's work. Equivalent to ART-564. Prerequisites: take ART-3310 and take ART-3314 or ART-4543.

ART-6565 3D Modeling (3.00 cr.)

Use industry standard animation software to construct detailed computer based 3D models. Explore the process of creating an environment. Prop a character with several surface editing techniques. Apply translate, rotate, and scale tools to manipulate the geometric components while learning how to create materials, texture maps, cameras and lighting to create desired mood and atmosphere. Equivalent to ART-565.

ART-6566 3D Animation (3.00 cr.)

Applies the principles of animation in a 3D computer environment by utilizing the basic concepts of timing, weight and anticipation. Explores the process of creating a 3D animation using keyframing and rigging techniques to set up model for animation. Equivalent to ART-566.

ART-6567 Printmaking: New Media (3.00 cr.)

Integrates contemporary art practices with traditional printmaking processes. ART-6567 may be repeated with the instructor's approval. Equivalent to ART-567. Prerequisite: take ART-3311 or ART-3312.

ART-6568 Combined Media (3.00 cr.)

A series of collaborative classes utilizing mixed media. Series may be repeated for different collaborations. Equivalent to ART-568. Prerequisite: take ART-3310.

ART-6570 Introduction to Non-Toxic Printmaking (3.00 cr.)

Uses non-toxic materials and techniques to produce fine art hand-pulled lithographs and etchings. Students will create imagery on polyester lithographic plates with litho pencils and crayons, ballpoint pen, marker, and toner washes. Etchings will use ImagOn film and hand-drawn methods. Small limited editions and experimental one-of-a-kind images will be made. Equivalent to ART-570. Prerequisite: take ART-3325.

ART-6571 Lithography (3.00 cr.)

In this course the student will learn the techniques and process to produce a fine art hand-pulled lithograph using newly developed non-toxic materials. Students will create imagery on polyester lithographic plates with litho pencils and crayons, ballpoint pen, marker, and toner washes. Small limited editions and experimental one-of-a-kind images will be made. Equivalent to ART-571. Prerequisites: take ART-3325 and take ART-4570 or ART-6570.

ART-6572 Printmaking: Waterbase Silkscreen (3.00 cr.)

Explores the basic fundamentals of waterbase silkscreen printmaking. Includes some advanced techniques and concentrates on the artistic and creative application of the medium. Course may be repeated with approval of instructor. Equivalent to ART-5572, ART-572. Prerequisite: take ART-3304 or ART-3305.

ART-6573 Printmaking: Relief (3.00 cr.)

The primary intent of the course is the development of the student's individual imagery through the process of black and white or color relief printmaking. Processes may include woodcut, linoleum block, and/or photopolymer plates. Emphasis will be placed on the planning, proofing, and reworking of the image, as well as short editioning. This course may be repeated for credit with permission of the instructor. Equivalent to ART-5573, ART-573. Prerequisite: take ART-3304 or ART-3305.

ART-6574 Printmaking: Intaglio (3.00 cr.)

This course examines techniques unique to intaglio printmaking, such as hard and soft ground etching, aquatint, and some advanced and experimental techniques. The methods used in the course are non-toxic innovations which avoid hazardous materials used in traditional etching. This includes photo imaging with ImagOn film and learning how to make a proper halftone positive. Emphasis is placed on the student's original imagery through planning, proofing, and reworking to a resulting consistent edition of prints, as well as unique prints, which are not editioned, and state prints. Course may be repeated with instructor's permission. Equivalent to ART-574. Prerequisite: take ART-3304 or ART-3305.

ART-6581 Printmaking: Advanced Studio (3.00 cr.)

Offers students the opportunity to work with monoprint and collagraph techniques. Monoprint, a direct and unique printmaking method, enables the student to expand known procedures and to experiment widely with drawing and painting. Collagraph invites application of both intaglio and relief printing from one handbuilt plate. Using the techniques together gives a strong combined imagery experience. Equivalent to ART-5581, ART-581.

ART-6585 Printmaking: Computer Apps (3.00 cr.)

This course allows advanced printmaking students to composite computer and hand-drawn imagery in silk-screen, lithographic, or intaglio prints. Students integrate computer derived imagery through photographic techniques to the printmaking matrix. Emphasis is on the creative application and combination of imagery. Equivalent to ART-585. Prerequisites: take ART-4509 or ART-4544 and take ART-4571, ART-4572, or ART-4574.

ART-6589 Intermediate Printmaking (3.00 cr.)

Develops technical, conceptual, and improvisational abilities within the framework of traditional and contemporary printmaking. This course may be repeated with the instructor's approval. Equivalent to ART-589. Prerequisite: take ART-3311 or ART-3312.

ART-6599 Advanced Printmaking (3.00 cr.)

Offers individual instruction in one or more print media within a formal group setting. Equivalent to ART-599. Prerequisites: take ART-4589, ART-4567.

ART-6605 Digital Mixed Media Techniques (3.00 cr.)

Course looks at alternate means of presenting digital imaging work, including advanced motion sequencing, multimedia techniques, interactive viewer participation, and development of a self-promotional web page. Equivalent to ART-605.

ART-6609 Advanced Electronic Drawing and Design (3.00 cr.)

Students develop images using the more advanced techniques of paint software on both PC and Mac computers. Variants for each painting application are explored and each student compiles his or her own library of custom-made friskets, brushes, painting session recordings, and effects. Third party filters are explored in depth. Emphasizes personal creative output and cooperative computer ventures. Equivalent to ART-609. Prerequisites: take ART-3325 and take ART-5509 or ART-5544.

ART-6610 Sculpture: Advanced Studio (3.00 cr.)

Provides opportunity to work on long-term projects in a wide range of media utilizing a variety of techniques. May be repeated with approval of instructor. Equivalent to ART-610. Prerequisites: take ART-3304 or ART-3305 and take ART-6535, ART-6541, or ART-6543.

ART-6615 Contemporary American Ideas and Cultures (3.00 cr.)

Examines artistic movements and theories of the Western world since 1945 with emphasis on European and American tradition. Studies contemporary artists, their philosophies, and the socio-political and intellectual climate of the period. Analyzes paintings, sculpture, graphic arts, and architecture cross-culturally. Equivalent to ART-615. Prerequisites: take ART-3314, ART-4505, ART-4514, ART-4515, ART-4516, ART-4518, ART-4521, ART-4523, ART-4525 or ART-4527.

ART-6644 Advanced Photographic Digital Imaging (3.00 cr.)

Introduces advanced levels of electronic manipulation and assemblage of photographic images. Students work through a series of exercises designed to build upon methods learned in ART-4554 and the incorporation of more sophisticated imagery and techniques to produce a higher level of aesthetic work. Equivalent to ART-644. Prerequisites: take ART-6544, ART-3302.

ART-8700 Graduate Research (1.00-3.00 cr.)

Individual reading, research, and/or project in art under the supervision of the faculty. Equivalent to ART-870.

ART-8710 Graduate Independent Study (3.00 cr.)

Individual reading, research, and/or project in art under the supervision of the faculty.

ART-8805 Art and Society (3.00 cr.)

Examines the behavioral aspects of artistic production and the use of art objects. Special emphasis is given to the role and status of artists in differing historical settings. Equivalent to ART-805.

ART-8810 Studies in Art (3.00 cr.)

Offers graduate students the opportunity to do individualized research in a particular area of art history or art studio. Equivalent to ART-810.

ART-8820 Art Seminar (3.00 cr.)

Focuses on research approaches, theory, techniques, and materials related to special topics. Designed to prepare students for a professional life and career in art. Equivalent to ART-820.

ART-8830 Graduate Photography and Digital Imaging (3.00 cr.)

Specifically emphasizes the content elements of a photography project. Individual student proposals will determine the nature of the work that will then be critiqued and discussed in class sessions. Course may be repeated with approval of instructor. Equivalent to ART-830.

ART-8855 Graduate Painting Composition (3.00 cr.)

Specifically emphasizes compositional elements in painting. Painting compositions will be achieved by a number of preparatory studies and sketches; final compositions are presented in the paintings. Course may be repeated with approval of instructor. Equivalent to ART-855. Prerequisites: take ART-3305 and take ART-6555 or ART-6558.

ART-8860 Graduate Printmaking (3.00 cr.)

Allows the student to perfect printmaking skills from intermediate through advanced level. Individual student proposals determine the nature of the work undertaken. May be repeated with approval of instructor. Equivalent to ART-860.

ART-8980 Graduate Thesis/Project (1.00-3.00 cr.)

Provides the art major the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in art. Equivalent to ART-890.

ART-8990 Graduate Thesis/Project (1.00-3.00 cr.)

Provides the art major the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in art. Equivalent to ART-890.

Astronomy

ASTR-1111 Introduction to Astronomy (3.00 cr.)

Examines astronomical phenomena and concepts, including the solar system, stars, and galaxies, planetary motions, atoms, and radiation, and the origin and evolution of the universe. Equivalent to ASTR-300. Prerequisite: take MATH-1423. Corequisite Course: ASTR-1112.

ASTR-1112 Introduction to Astronomy Laboratory (1.00 cr.)

Provides "hands-on" experience in astronomy. Discusses patterns and studies the relationships among variables in a given set of observations or laboratory measurements. Describes recording data and measurements, and analyze results and the sources of error. Equivalent to ASTR-301. Prerequisite: take MATH-1423. Corequisite Course: ASTR-1111.

ASTR-5141 Eclipses (1.00 cr.)

Discusses lunar and solar eclipses: conditions necessary for each type of eclipse and how to safely observe an eclipse of the sun. Equivalent to ASTR-504. Prerequisite: take MATH-1423.

ASTR-5149 History of Space Exploration (1.00 cr.)

Discusses the history and science of manned and unmanned exploration of space. Begins with the first satellites and humans launched into space, continues through the Apollo moon program, and concludes with the Space Shuttle and International Space Station. Equivalent to ASTR-524. Prerequisite: take MATH-1423.

ASTR-5163 Asteroids, Comets, and Meteoroids (1.00 cr.)

Discusses our solar system's space debris: asteroids, comets, and meteoroids. Studies the origin of each and discusses their impact upon Earth. Explores ancient civilization's belief about each. Equivalent to ASTR-516. Prerequisite: take MATH-1423.

ASTR-5185 Inner Solar System: The Terrestrial Planets (1.00 cr.)

Discusses the planets Mercury, Venus, Earth, and Mars. Emphasizes the basic properties of the planets, how they were formed, their atmospheres, and the natural satellites of Earth and Mars. Equivalent to ASTR-518. Prerequisite: take MATH-1423.

ASTR-5187 Outer Solar System: The Jovian Planets (1.00 cr.)

Discusses the planets Jupiter, Saturn, Uranus, and Pluto. Emphasizes the basic properties of the planets, how they differ from the terrestrial planets, and the natural satellites of each planet. Equivalent to ASTR-520. Prerequisite: take MATH-1423.

ASTR-5201 Charting the Night Sky (1.00 cr.)

Discusses the celestial sphere and the relations among the apparent motions of the sun, moon, and planets with respect to the stars. Emphasizes how to locate and identify bright stars, constellations, and planets in the night sky. Equivalent to ASTR-500. Prerequisite: take MATH-1423.

ASTR-5207 Black Holes, Quasars, and the Universe (1.00 cr.)

Discusses the death of stars, from white dwarfs and neutron stars to black holes. Studies the violent explosions that rock the central regions of many galaxies, as well as the relation between black holes, exploding galaxies, and quasars. Equivalent to ASTR-510. Prerequisite: take MATH-1423.

ASTR-5211 Astronomy in the Classroom (1.00 cr.)

Surveys astronomy, involving the major physical components of the universe, including planets, stars, constellations, and galaxies. Discusses and demonstrates methods for including astronomy in the science curriculum. Identifies sources for obtaining free and inexpensive astronomy materials. Equivalent to ASTR-501. Prerequisite: take MATH-1423.

ASTR-5223 Archaeoastronomy (1.00 cr.)

Discusses concepts related to lunar and solar eclipses, appearance of the night sky at varying latitudes from the North Pole to the equator, apparent uses of Stonehenge, and ancient astronomies of North America and Central America. Equivalent to ASTR-502. Prerequisite: take MATH-1423.

ASTR-5235 Galaxies and the Universe (1.00 cr.)

Discusses the historical and current theories about the origin and structure of the universe. Focuses on the Big Bang Theory of the universe's creation. Discusses the formation and structure of galaxies. Equivalent to ASTR-503. Prerequisite: take MATH-1423.

ASTR-5343 Methods and Tools of Astronomers (1.00 cr.)

Discusses concepts related to optics and operation of reflecting and refracting telescopes. Emphasizes the resolving power, magnification, image scale, and light gathering ability of a telescope. Equivalent to ASTR-514. Prerequisite: take MATH-1423.

ASTR-5361 Stars and Nebulas (1.00 cr.)

Discusses the distance to stars, the surface temperature of stars, the size of stars, the mass of stars, and the laws of nature that govern the behavior and physical properties of stars. Also, how stars are born, live, and die. Equivalent to ASTR-506. Prerequisite: take MATH-1423.

ASTR-5421 Superstring Theory (2.00 cr.)

Discusses the recent efforts by physicist to combine two important theories: Quantum Mechanics and Einstein's General Relativity, which are mutually incompatible. Superstring Theory overcomes the incompatibility problem by giving us a new theory called the Theory of Everything (T.O.E.). Equivalent to ASTR-522. Prerequisite: take MATH-1423.

Bilingual-Bicultural Education

See Education – Bilingual-Bicultural

Biology

BIOL-2102 Biological Science Foundations I (3.00 cr.)

Covers cell structure and function and the processes of mitosis and meiosis. Cell respiration is also covered. Examines human biology, including development from conception to birth, and the structure and function of all major systems. Designed for non-science majors. Equivalent to BIOL-305.

BIOL-2104 Biological Science Foundations II (3.00 cr.)

Covers plant structure and function and the process of photosynthesis. Examines the operations of DNA and protein synthesis. Introduces the concepts of Mendelian and non-Mendelian genetics and the fundamental principles of ecology and evolution. Equivalent to BIOL-306.

BIOL-2107 Biological Science Foundations Laboratory (1.00 cr.)

Provides a series of laboratory and/or field activities appropriate to the topics covered in BIOL-2102 and BIOL-2104. Emphasizes both knowledge and skills in laboratory operations. Designed for non-science majors. Equivalent to BIOL-307. Corequisite courses: BIOL-2102, BIOL-2104.

BIOL-2109 Biological Foundations Laboratory (1.00 cr.)

Provides a series of online laboratory simulations appropriate to the topics covered in BIOL-2104. Emphasizes both knowledge and skills in laboratory operations. Equivalent to BIOL-314. Corequisite Course: BIOL-2104.

BIOL-2112 Biological Science Foundations I Laboratory (1.00 cr.)

This online course provides a series of laboratory activities appropriate to the topics covered in BIOL-2102. Emphasizes both knowledge and skills in laboratory operations. Corequisite Course: BIOL-2102.

BIOL-3108 Human Evolution (3.00 cr.)

This online course covers the principles of evolution and the history of evolutionary thought. Considers the development of biological anthropology and the human fossil record. Presents an account of human evolution based on an interpretation of the fossil record. Equivalent to BIOL-308.

BIOL-3109 Human Evolution Laboratory (1.00 cr.)

Companion lab to Human Evolution (BIOL-3108) with lab exercises covering development of evolution theory, evolution biology, analytical techniques of hominid fossils, hypotheses testing, and interpretation of the hominid fossil record. Designed for non-science majors. Equivalent to BIOL-311. Corequisite Course: BIOL-3108.

BIOL-3112 Human Genetics: Concepts and Technology (3.00 cr.)

Considers the biological basis of human heredity by examining the principles of classical, molecular, and population genetics and their technological applications to current issues in medicine, conservation, reproduction, cancer, biotechnology, genetic engineering, and bioethics. Equivalent to BIOL-312. Prerequisites: take MATH-1423 or take MATH-2131 and MATH-2141).

BIOL-3116 Perspectives on the Physical and Natural Sciences (3.00 cr.)

Introduces the relationships between the physical or natural sciences and other disciplines such as public administration, economics, and health administration. Topics include the relationships among science and law, business, government, public health, and religion. Fundamental aspects of science, such as the scientific process and scientific models are also presented. Note: Students should have completed general education science course. Equivalent to BIOL-309.

BIOL-3118 Environmental Studies: A Case Studies Approach (3.00 cr.)

Uses a case study approach in the characterization and analysis of selected local, regional, and global environmental issues. Develops connections and relationships among the case studies and generalized environmental issues. Note: Note: Students should have completed general education science courses. Equivalent to BIOL-310.

BIOL-3316 Plant Diversity Lecture (2.00 cr.)

Covers the comparative life cycle adaptations found in the plant kingdom. Studies in detail all of the divisions, together with their associated classes and orders. Explores vegetative morphology of gametophytes and sporophytes, the processes of gametogenesis and sporogenesis, propagule dispersal, and methods of asexual reproduction. Illustrates and discusses in detail the life cycles of selected genera. Equivalent to BIOL-316. Corequisite Course: BIOL-3317.

BIOL-3317 Plant Diversity Laboratory (1.00 cr.)

Involves laboratory experiments and activities appropriate to the topics covered in BIOL316. Specifically, prepared slides, preserved specimens, and live material are provided for laboratory study. These materials are comprised of selected genera representing the divisions, major classes, and orders of the plant kingdom. Equivalent to BIOL-317. Corequisite Course: BIOL-3316.

BIOL-3320 Animal Diversity (2.00 cr.)

Covers the morphological diversity, life cycles, ecological relationships, and evolutionary adaptations found in the animal kingdom. Major animal phyla, together with their associated classes, are studied in detail. Equivalent to BIOL-320. Corequisite Course: BIOL-3321.

BIOL-3321 Animal Diversity Laboratory (1.00 cr.)

Includes laboratory experiments and activities correlated with topics covered in BIOL-3320. Prepared slides, preserved specimens, and live material are provided for laboratory study. These materials are comprised of selected genera representing major phyla of the animal kingdom. Equivalent to BIOL-321. Corequisite Course: BIOL-3320.

BIOL-3322 Ecology (3.00 cr.)

Examines the interactions which determine the distribution and abundance of plants and animals in nature. The relationship among theoretical, laboratory, and field studies will be emphasized. The course is designed for science majors. Equivalent to BIOL-322. Prerequisites: take BIOL-3316, BIOL-3317, BIOL-3320, BIOL-3321. Corequisite Course: BIOL-3323.

BIOL-3323 Ecology Laboratory (1.00 cr.)

Provides field and laboratory experiences associated with BIOL-3322. Equivalent to BIOL-323. Corequisite Course: BIOL-3322.

BIOL-3340 Genetics (3.00 cr.)

Emphasizes the principles of classical and molecular genetics by examining Mendelian and nonMendelian inheritance, linkage, gene structure, expression, mutation and regulation, genetic engineering, and microbial and population genetics. Equivalent to BIOL-340. Prerequisites: take CHEM-3531, CHEM-3532.

BIOL-3360 Comparative Anatomy (3.00 cr.)

Introduces the anatomy of the chordates, treating the structure and functioning of the major vertebrate organ systems from a comparative and evolutionary perspective. Equivalent to BIOL-360. Prerequisites: take BIOL-3320, BIOL-3321. Corequisite Course: BIOL-3361.

BIOL-3361 Comparative Anatomy Laboratory (1.00 cr.)

Examines in detail the structure of the vertebrate body. Emphasizes the dissection of a series of vertebrate types. Equivalent to BIOL-361. Corequisite Course: BIOL-3360.

BIOL-3370 Cell Biology (3.00 cr.)

This course covers cell ultrastructure, biochemical composition, metabolism, and proliferation of cells and considers research techniques used to study cell structure and function. Equivalent to BIOL-370. Prerequisites: take CHEM-3531, CHEM-3532. Corequisite Course: BIOL-3371.

BIOL-3371 Cell Biology Laboratory (1.00 cr.)

This laboratory course consists of experiments and demonstrations that match lecture topics, including cell ultrastructure, biochemical composition, metabolism, and proliferation of cells, and considers research techniques used to study cell structure and function. Equivalent to BIOL-371. Corequisite Course: BIOL-3370.

BIOL-4000 Biology Workshop (1.00-5.00 cr.)

Examines a selected topic in the biological sciences. Topics vary and range from practical application of a specific set of field methods, such as recording, processing, and cataloging of animal sounds to exploration of a specific conceptual area, theory, or controversial topic within the biological sciences. May be repeated for credit. Equivalent to BIOL-501.

BIOL-4140 Natural History of Waterfowl (1.00 cr.)

This course provides an introduction to the biology of waterfowl. Emphasis is placed on the identification, distribution, behavior, conservation, and ecology of waterfowl. The laboratory portion of the course provides for hands on experience with identification and associated fieldwork. Specific attention will be given to waterfowl that migrate through Illinois. Equivalent to BIOL-540.

BIOL-4141 Natural History of Grassland Birds (1.00 cr.)

Introduces the biology of grassland birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of grassland birds. Provides hands on experience with identification and associated fieldwork with special attention to grassland birds of Illinois. Equivalent to BIOL-541.

BIOL-4142 Natural History of Wetland Birds (1.00 cr.)

Introduces the biology of wetland birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of wetland birds. Provides hands on experience with identification and associated fieldwork with special attention to wetland birds of Illinois. Equivalent to BIOL-542.

BIOL-4143 Natural History of Forest Birds (1.00 cr.)

Introduces the biology of forest birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of forest birds. Provides hands on experience with identification and associated fieldwork with special attention to forest birds of Northeastern Illinois. Equivalent to BIOL-543.

BIOL-4144 Natural History of Raptors (2.00 cr.)

Introduces the biology of raptors: hawks, eagles, falcons, and owls. Emphasizes the common characteristics of raptors, including distribution, morphology, physiology, behavior, conservation, and ecology. Provides more practical, hands-on experience through identification and methods associated with fieldwork. Requires a three-day field trip in U.P. Michigan. Equivalent to BIOL-544. Prerequisites: take BIOL-3322 and BIOL-3323 or take BIOL-4522 and BIOL-4523 or take BIOL-6522 and BIOL-6523).

BIOL-4145 Spring Migrant Birds (1.00 cr.)

Introduces the biology of migrating birds. Emphasis is placed on the identification, distribution, behavior, conservation, ecology of migrating birds. Provides hands on experience with identification and associated fieldwork. Specific attention will be given to birds that migrate through Illinois. Equivalent to BIOL-545.

BIOL-4146 Avian Surveying Techniques (1.00 cr.)

Introduces surveying techniques used when estimating avian populations with specific attention to the habitat types and avifauna of Illinois. Introduces how to match survey techniques with habitat types based on limiting factors. Provides hands on experiences in surveying avian populations in different habitats. Equivalent to BIOL-546.

BIOL-4147 Bird Banding (1.00 cr.)

Includes the sampling method of bird banding. Emphasis placed on identification, dispersal, migration, and the use of banding as a tool in the study of bird populations and communities. Provides hands on experience in safely removing birds from mist-nets, identification of resident birds, and protocol in banding birds. Equivalent to BIOL-547.

BIOL-4148 Bird Behavior (1.00 cr.)

Introduces sampling techniques used to quantify bird behavior. Emphasis placed on identifying and defining behaviors in sufficient detail to develop an ethogram for behavioral observations in the field. Advantages and disadvantages of various sampling methods are discussed. Equivalent to BIOL-548.

BIOL-4149 Avian Conservation (1.00 cr.)

Introduces scientific methodology used to monitor populations of avian species and assess their habitat. Emphasis placed on evaluating different management strategies and identifying the impact of social, political, legal, and/or economical issues that might influence effectiveness. Equivalent to BIOL-549, BIOL-5149.

BIOL-4150 Avian Anatomy and Physiology (1.00 cr.)

Introduces the fundamental concepts of form, function, and adaptive evolution as they apply to basic avian anatomy and physiology. Equivalent to BIOL-550.

BIOL-4430 Microbiology (3.00 cr.)

Considers the function of microbial organisms in natural and disturbed environments, and introduces the basic morphology and physiology of microorganisms found in soil, air, and water. Primary emphasis is on the techniques for detecting, culturing, identifying, and controlling microorganisms. Equivalent to BIOL-430. Corequisite Course: BIOL-4431.

BIOL-4431 Microbiology Laboratory (1.00 cr.)

Course consists of laboratory experiments and activities correlated with topics covered in BIOL-4430. Students will learn to use standard laboratory procedures to identify microorganisms. Equivalent to BIOL-431. Corequisite Course: BIOL-4430.

BIOL-4444 Human Physiology I (2.00 cr.)

Emphasizes the physiological principles of human health and disease by examining the cell and organ physiology of the nervous, muscular, blood, cardiovascular, and respiratory systems. Equivalent to BIOL-444. Prerequisites: take CHEM-3513, CHEM-3514. Corequisite Course: BIOL-4445.

BIOL-4445 Human Physiology I Laboratory (1.00 cr.)

Covers laboratory experiments associated with BIOL-4444. Equivalent to BIOL-445. Corequisite Course: BIOL-4444.

BIOL-4446 Human Physiology II (2.00 cr.)

Emphasizes the physiological principles of human health and disease by examining the cell and organ physiology of the digestive, renal, immunological, endocrine, and sensory systems. Equivalent to BIOL-446. Prerequisites: take BIOL-4444, BIOL-4445. Corequisite Course: BIOL-4447.

BIOL-4447 Human Physiology II Laboratory (1.00 cr.)

Covers laboratory experiments associated with BIOL-4446. Equivalent to BIOL-447. Corequisite Course: BIOL-4446.

BIOL-4450 Animal Physiology (3.00 cr.)

Emphasizes physiological principles by examining the cell and organ physiology of the nervous, muscular, blood, immunological, cardiovascular, digestive, respiratory, and excretory systems. Considers some comparative physiological adaptations among vertebrates. Equivalent to BIOL-450. Prerequisites: take BIOL-3370, BIOL-3371, CHEM-3531, CHEM-3532. Corequisite Course: BIOL-4451.

BIOL-4451 Animal Physiology Laboratory (1.00 cr.)

Covers laboratory experiments and demonstrations associated with BIOL-4450. Equivalent to BIOL-451. Corequisite Course: BIOL-4450.

BIOL-4460 Plant Physiology (3.00 cr.)

Covers the functional anatomy of cells and tissues of flowering plants. Regarding cells, emphasis is placed on the ultrastructure and function of the plant cell wall. Gross anatomy stresses the functional tissues of roots, stems, and leaves. Also covers the physiology of water relations, mineral nutrition, photosynthesis, and hormonal regulation of growth and development. Equivalent to BIOL-460. Prerequisites: take BIOL-3370, BIOL-3371, CHEM-3531, CHEM-3532. Corequisite Course: BIOL-4461.

BIOL-4461 Plant Physiology Laboratory (1.00 cr.)

Involves laboratory experiments and activities appropriate to the topics covered in BIOL-4460. Prepared slides and preserved specimens will be provided for laboratory investigation of the functional anatomy of flowering plants. A variety of experiments on photosynthesis, water potential, mineral nutrition, and hormonal control of growth and development will be performed. Equivalent to BIOL-461. Corequisite Course: BIOL-4460.

BIOL-4465 Evolution (3.00 cr.)

This course provides comprehensive coverage of the process of evolution and the theory of natural selection. Topics include population genetics as a mechanism for natural selection, molecular evolution, adaptation and natural selection, the species concept and mechanisms of speciation, methods of evolutionary classification and reconstruction of phylogenies, evolutionary biogeography, and paleobiology and macroevolution. Equivalent to BIOL-465. Prerequisite: take BIOL-3340.

BIOL-4510 Biological Literature (1.00 cr.)

This Internet course acquaints students with major sources in biological information literature and provides guidance and practice in their efficient utilization. Includes uses of indices, abstracts, online databases, websites, and other sources to identify specific information resources in biology. Consideration is given to how information is organized and stored for retrieval. Equivalent to BIOL-510.

BIOL-4516 Tropical Ecology (3.00 cr.)

The course integrates tropical ecology with current resource use practices, economics, and history of the Mayan culture in Belize. The course provides a broad-based overview of tropical ecosystems through "hands-on" experience and workshops dealing with such diverse subjects as climate, biodiversity, ethnology, and human influences on the environment. Equivalent to BIOL-516. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-4522 Ornithology (1.00 cr.)

Introduces ornithology, focusing on the basic morphology, physiology, ecology, and behavior of birds. Places particular emphasis on bird vocalizations, territoriality, life history data, and the structure of bird communities. Equivalent to BIOL-522. Prerequisites: take BIOL-3320, BIOL-3321. Corequisite Course: BIOL-4523.

BIOL-4523 Ornithology Laboratory (2.00 cr.)

Focuses on the identification of birds in the field by both visual and auditory characteristics. Weekly field trips allow students to become familiar with the majority of resident and migratory birds of Northeastern Illinois. Equivalent to BIOL-523. Corequisite Course: BIOL-4522.

BIOL-4530 Biotechnology (2.00 cr.)

This course examines the development of the field of biotechnology and the principles of recombinant DNA technology as they apply to studies of animals, plants, medicine, forensics, and the Human Genome Project. Equivalent to BIOL-530, BIOL-5530. Prerequisites: take BIOL-4430, BIOL-4431 and take BIOL-3340 or [BIOL-3370 and BIOL-3371] or [CHEM-5331 and CHEM-5332]. Corequisite course: BIOL-4531, BIOL-6531.

BIOL-4531 Biotechnology Laboratory (1.00-2.00 cr.)

This course consists of the application of standard techniques used in biotechnology. Equivalent to BIOL-531, BIOL-5531. Corequisite Course: BIOL-4530.

BIOL-4536 Environmental Hydrology (2.00 cr.)

Covers major hydrologic processes, including precipitation, interception, evaporation, transpiration, infiltration, percolation, soil water, surface runoff, and ground water. Discusses current environmental issues in relation to water resources utilization and management. Equivalent to BIOL-536. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite Course: BIOL-4537.

BIOL-4537 Environmental Hydrology Laboratory (1.00 cr.)

Involves laboratory experiments, field experiments, and activities appropriate to the topics covered in Environmental Hydrology. Laboratory sessions deal with measurements and calculations of the major hydrologic processes, including precipitation, interception, evaporation, transpiration, infiltration, soil water, stream flow, runoff, and water quality analysis. Corequisite Course: BIOL-4536.

BIOL-4555 Mammalogy (2.00 cr.)

Emphasizes the common characteristics of mammals generally. Specific attention given to the mammals of the Great Lakes region in terms of distribution, morphology, physiology, and behavior. Equivalent to BIOL-555. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite Course: BIOL-4556.

BIOL-4556 Mammalogy Laboratory (1.00 cr.)

Provides laboratory experiences associated with Mammalogy. Equivalent to BIOL-556. Corequisite Course: BIOL-4555.

BIOL-4560 Plant Systematics (2.00 cr.)

Covers various systems of classification from both modern and historical perspectives, the effect of evolutionary theory on systematics, for example, parallelism and convergence. Compares phylogenetic and natural systems. Introduces students to a variety of taxonomic keys covering broad and localized geographic areas. Equivalent to BIOL-560. Prerequisites: take BIOL-3316, BIOL-3317. Corequisite Course: BIOL-4561.

BIOL-4561 Plant Systematics Laboratory (1.00 cr.)

A study of the flowering plants of the Chicago region with emphasis on identification, classification, and nomenclature. Equivalent to BIOL-561. Corequisite course: BIOL-4560.

BIOL-4570 Immunology (3.00 cr.)

Introduces the concepts and terminology of the immune response, including humoral and cellular immunity, immunogenetics, tumor and transplantation immunity, serology, immunopathology, and developmental and comparative immunobiology. Equivalent to BIOL-570. Prerequisites: take BIOL-4450 and BIOL-4451 or take BIOL-4444, BIOL-4445, BIOL-4446, and BIOL-4447).

BIOL-4580 Behavioral Ecology (3.00 cr.)

Introduces the field of ethology, the study of animal behaviors as biological phenomena, with a focus on evolution and ecology of behavior. Provides basic terminology as well as theoretical perspectives on interrelationships of behavior with other biological levels of organization. Equivalent to BIOL-580. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-4590 Aquatic Ecology (2.00 cr.)

Introduces the ecology of streams and lakes, focusing on the biological, physical, and chemical processes that structure aquatic environments. Places particular emphasis on the concept of the watershed, on invertebrate and fish communities of streams, and on the planktonic communities of lakes. Equivalent to BIOL-590. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite course: BIOL-4591.

BIOL-4591 Aquatic Ecology Laboratory (1.00 cr.)

Provides fieldwork and laboratory experiences appropriate to the topics covered in Aquatic Ecology. Equivalent to BIOL-591. Corequisite course: BIOL-4590.

BIOL-4870 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in biology under the supervision of the faculty. Equivalent to BIOL-470.

BIOL-4880 Internship (1.00-4.00 cr.)

Designed to provide biology students with supervised practical experiences in applied settings. Equivalent to BIOL-480.

BIOL-4990 Undergraduate Research I (1.00 cr.)

Provides instruction and practical experience in planning laboratory or field research in biology. Topics include the scientific method, forming a research question, conducting a literature review, scientific writing style and citations, avoiding plagiarism, and a writing research proposal. Equivalent to BIOL-491. Prerequisite: take STAT-4219.

BIOL-4992 Undergraduate Research II (1.00 cr.)

Provides instruction and practical experience in conducting research, analyzing data, and writing a report on results in journal manuscript format. Topics include parts of a research paper, data analysis, and oral presentation of research results. Equivalent to BIOL-492. Prerequisite: take BIOL-4990.

BIOL-6000 Biology Workshop (1.00-5.00 cr.)

Examines a selected topic in the biological sciences. Topics vary and range from practical application of a specific set of field methods, such as recording, processing, and cataloging of animal sounds to exploration of a specific conceptual area, theory, or controversial topic within the biological sciences. May be repeated for credit. Equivalent to BIOL-501.

BIOL-6101 Environmental Science: Terrestrial Biology (1.00-2.00 cr.)

Identification of plants and field trips to local natural communities are used to develop an understanding of regional environments. Teaching applications are made using terraria and aquaria. Course cannot be used to satisfy general education requirements. Designed as an in-service course for teachers, environmental educators, and environmental volunteers Equivalent to BIOL-600.

BIOL-6103 Environmental Science: Biological Field Science (1.00-2.00 cr.)

Field methods of investigation are used to compare habitats, study variation in plant communities, and investigate the effects of pollution. Course cannot be used to satisfy general education requirements. Designed as an in-service course for teachers, environmental educators, and environmental volunteers. Equivalent to BIOL-601.

BIOL-6105 Environmental Science: Earth Science (1.00-2.00 cr.)

Emphasis is placed on the relationship between landforms and geological processes using local examples. The geologic history of the Chicago region is deciphered through field trips. Map and compass skills are also included. Course cannot be used to satisfy general education requirements. Designed as an in-service course for teachers, environmental educators, and environmental volunteers. Equivalent to BIOL-602.

BIOL-6107 Environmental Science: Forest Investigations (1.00-2.00 cr.)

Field methods of analysis, including point-quarter transects, age classification by correlation to diameter class, variable and fixed plot sampling, and evaluating the effects of microclimate. Course cannot be used to satisfy general education requirements. Designed as an in-service course for teachers, environmental educators, and environmental volunteers. Equivalent to BIOL-603.

BIOL-6109 Environmental Science: Investigations in Limnology (1.00-2.00 cr.)

An intensive series of field investigations in which participants investigate elements of real lentic and lotic limnological systems, including rivulets, creeks, marshes, ponds, and lakes. Emphasizes characteristic macro-invertebrates, vertebrates, and the physical/chemical properties of aquatic environments whether natural or influenced by human activities. Course cannot be used to satisfy general education requirements. Designed as an in-service course for teachers, environmental educators, and environmental volunteers. Equivalent to BIOL-604.

BIOL-6112 Human Genetics (3.00 cr.)

Considers the biological basis of human heredity, by examining the principles of classical, molecular, and population genetics and their application to current issues in human heredity, including inheritance disorders, sex determination, carcinogenesis and health, genetic engineering, genetic counseling, reproductive technologies, evolution, and bioethics. Equivalent to BIOL-512. Prerequisites: take MATH-2141 and take MATH-1423 or MATH-2131.

BIOL-6140 Natural History of Waterfowl (1.00 cr.)

This course provides an introduction to the biology of waterfowl. Emphasis is placed on the identification, distribution, behavior, conservation, and ecology of waterfowl. provides hands on experience with identification and associated fieldwork. Specific attention will be given to waterfowl that migrate through Illinois. Equivalent to BIOL-540.

BIOL-6141 Natural History of Grassland Birds (1.00 cr.)

Introduces the biology of grassland birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of grassland birds. Provides hands on experience with identification and associated fieldwork with special attention to grassland birds of Illinois. Equivalent to BIOL-541.

BIOL-6142 Natural History of Wetland Birds (1.00 cr.)

Introduces the biology of wetland birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of wetland birds. Provides hands on experience with identification and associated fieldwork with special attention to wetland birds of Illinois. Equivalent to BIOL-542.

BIOL-6143 Natural History of Forest Birds (1.00 cr.)

Introduces the biology of forest birds. Emphasizes the identification, distribution, behavior, conservation, and ecology of forest birds. Provides hands on experience with identification and associated fieldwork with special attention to forest birds of Northeastern Illinois. Equivalent to BIOL-543.

BIOL-6144 Natural History of Raptors (2.00 cr.)

Introduces the biology of raptors: hawks, eagles, falcons, and owls. Emphasizes the common characteristics of raptors, including distribution, morphology, physiology, behavior, conservation, and ecology. Provides more practical, hands-on experience through identification and methods associated with fieldwork. Requires a three-day fieldtrip in U.P. Michigan. Equivalent to BIOL-544. Prerequisites: take BIOL-3322 and BIOL-3323 or take BIOL-4522 and BIOL-4523 or take BIOL-6522 and BIOL-6523).

BIOL-6145 Spring Migrant Birds (1.00 cr.)

Introduces the biology of migrating birds. Emphasis is placed on the identification, distribution, behavior, conservation, ecology of migrating birds. Provides hands on experience with identification and associated fieldwork. Specific attention will be given to birds that migrate through Illinois. Equivalent to BIOL-545.

BIOL-6146 Avian Surveying Techniques (1.00 cr.)

Introduces surveying techniques used when estimating avian populations with specific attention to the habitat types and avifauna of Illinois. Introduces how to match survey techniques with habitat types based on limiting factors. Provides hands on experiences in surveying avian populations in different habitats. Equivalent to BIOL-546.

BIOL-6147 Bird Banding (1.00 cr.)

Includes the sampling method of bird banding. Emphasis placed on identification, dispersal, migration, and the use of banding as a tool in the study of bird populations and communities. Provides hands on experience in safely removing birds from mist-nets, identification of resident birds, and protocol in banding birds. Equivalent to BIOL-547.

BIOL-6148 Bird Behavior (1.00 cr.)

Introduces sampling techniques used to quantify bird behavior. Emphasis placed on identifying and defining behaviors in sufficient detail to develop an ethogram for behavioral observations in the field. Advantages and disadvantages or various sampling methods are discussed. Equivalent to BIOL-548.

BIOL-6149 Avian Conservation (1.00 cr.)

Introduces scientific methodology used to monitor populations of avian species and assess their habitat. Emphasis placed on evaluating different management strategies and identifying the impact of social, political, legal, and/or economical issues that might influence effectiveness. Equivalent to BIOL-549, BIOL-5149.

BIOL-6150 Avian Anatomy and Physiology (1.00 cr.)

Introduces the fundamental concepts of form, function, and adaptive evolution as they apply to basic avian anatomy and physiology. Equivalent to BIOL-550.

BIOL-6510 Biological Literature (1.00 cr.)

This Internet course acquaints students with major sources in biological information literature and provides guidance and practice in their efficient utilization. Includes uses of indices, abstracts, online databases, websites, and other sources to identify specific information resources in biology. Consideration is given to how information is organized and stored for retrieval. Equivalent to BIOL-510.

BIOL-6516 Tropical Ecology (3.00 cr.)

The course integrates tropical ecology with current resource use practices, economics, and history of the Mayan culture in Belize. The course provides a broad-based overview of tropical ecosystems through "hands-on" experience and workshops dealing with such diverse subjects as climate, biodiversity, ethnology, and human influences on the environment. Equivalent to BIOL-516. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-6522 Ornithology (1.00 cr.)

Introduces ornithology, focusing on the basic morphology, physiology, ecology, and behavior of birds. Places particular emphasis on bird vocalizations, territoriality, life history data, and the structure of bird communities. Equivalent to BIOL-522. Prerequisites: take BIOL-3320, BIOL-3321. Corequisite course: BIOL-6523.

BIOL-6523 Ornithology Laboratory (2.00 cr.)

Focuses on the identification of birds in the field by both visual and auditory characteristics. Weekly field trips allow students to become familiar with the majority of resident and migratory birds of Northeastern Illinois. Equivalent to BIOL-523. Corequisite course: BIOL-6522.

BIOL-6530 Biotechnology (2.00 cr.)

This course examines the development of the field of biotechnology and the principles of recombinant DNA technology as they apply to studies of animals, plants, medicine, forensics, and the Human Genome Project. Equivalent to BIOL-530, BIOL-5530. Prerequisites: take BIOL-4430, BIOL-4431 and take BIOL-3340 or [BIOL-3370 and BIOL-3371] or [CHEM-5331 and CHEM-5332]. Corequisite courses: BIOL-4531, BIOL-6531.

BIOL-6531 Biotechnology Laboratory (1.00-2.00 cr.)

This course consists of the application of standard techniques used in biotechnology. Equivalent to BIOL-531, BIOL-5531. Corequisite course: BIOL-6530.

BIOL-6536 Environmental Hydrology (2.00 cr.)

Covers major hydrologic processes, including precipitation, interception, evaporation, transpiration, infiltration, percolation, soil water, surface runoff, and ground water. Discusses current environmental issues in relation to water resources utilization and management. Equivalent to BIOL-536. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite course: BIOL-6537.

BIOL-6537 Environmental Hydrology Laboratory (1.00 cr.)

Involves laboratory experiments, field experiments, and activities appropriate to the topics covered in Environmental Hydrology. Laboratory sessions deal with measurements and calculations of the major hydrologic processes, including precipitation, interception, evaporation, transpiration, infiltration, soil water, stream flow, runoff, and water quality analysis. Corequisite course: BIOL-6536.

BIOL-6555 Mammalogy (2.00 cr.)

Emphasizes the common characteristics of mammals generally. Specific attention given to the mammals of the Great Lakes region in terms of distribution, morphology, physiology, and behavior. Equivalent to BIOL-555. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite course: BIOL-6556.

BIOL-6556 Mammalogy Laboratory (1.00 cr.)

Provides laboratory experiences associated with Mammalogy. Equivalent to BIOL-556. Corequisite course: BIOL-6555.

BIOL-6560 Plant Systematics (2.00 cr.)

Covers various systems of classification from both modern and historical perspectives, the effect of evolutionary theory on systematics, for example, parallelism and convergence. Compares phylogenetic and natural systems. Introduces students to a variety of taxonomic keys covering broad and localized geographic areas. Equivalent to BIOL-560. Prerequisites: take BIOL-3316, BIOL-3317. Corequisite course: BIOL-6561.

BIOL-6561 Plant Systematics Laboratory (1.00 cr.)

A study of the flowering plants of the Chicago region with emphasis on identification, classification, and nomenclature. Equivalent to BIOL-561. Corequisite course: BIOL-6560.

BIOL-6570 Immunology (3.00 cr.)

Introduces the concepts and terminology of the immune response, including humoral and cellular immunity, immunogenetics, tumor and transplantation immunity, serology, immunopathology, and developmental and comparative immunobiology. Equivalent to BIOL-570. Prerequisites: take BIOL-4450 and BIOL-4451 or take BIOL-4444, BIOL-4445, BIOL-4446, and BIOL-4447).

BIOL-6580 Behavioral Ecology (3.00 cr.)

Introduces the field of ethology, the study of animal behaviors as biological phenomena, with a focus on evolution and ecology of behavior. Provides basic terminology as well as theoretical perspectives on interrelationships of behavior with other biological levels of organization. Equivalent to BIOL-580. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-6590 Aquatic Ecology (2.00 cr.)

Introduces the ecology of streams and lakes, focusing on the biological, physical, and chemical processes that structure aquatic environments. Places particular emphasis on the concept of the watershed, on invertebrate and fish communities of streams, and on the planktonic communities of lakes. Equivalent to BIOL-590. Prerequisites: take BIOL-3322, BIOL-3323. Corequisite course: BIOL-6591.

BIOL-6591 Aquatic Ecology Laboratory (1.00 cr.)

Provides fieldwork and laboratory experiences appropriate to the topics covered in BIOL590. Equivalent to BIOL-591. Corequisite course: BIOL-6590.

BIOL-6615 Geographical Information Systems (3.00 cr.)

This course applies Geographical Information Systems (GIS) and Global Positioning Systems (GPS) to environmental issues. The course is computer intensive, emphasizing the interrelationship and analysis of environmental spatial patterns. The lecture/computer portion of the course is complemented by fieldwork. Equivalent to BIOL-615. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-6622 Natural Areas Ecology (3.00 cr.)

Through readings and discussions, the course will attempt to synthesize several ecological subdisciplines, paying particular attention to landscape ecology. The primary emphasis will then be to apply the synthesis to restoration, preserve design, and environmentally sound land use practices. Topics covered will include the restoration of prairie, woodland, and wetland; the location, size, and shape of nature preserves; and methods used for identifying and linking natural areas. Equivalent to BIOL-622. Prerequisites: take BIOL-3322, BIOL-3323.

BIOL-6641 Toxicology (3.00 cr.)

Emphasizes toxicological principles by examining biological and chemical factors that influence toxicity, the impact of natural and synthetic toxins on the environment and health, toxicity testing protocols, regulations, and risk assessment. Equivalent to BIOL-641. Prerequisites: take CHEM-3531, CHEM-3532, BIOL-4450, BIOL-4451 or take CHEM-3531, CHEM-3532, CHEM-5331, CHEM-5332.

BIOL-6657 Ecological Methods: Populations (2.00 cr.)

For graduate students of environmental biology. One of two courses on field methods in ecology. Covers basic field techniques, planning of field experiments, collection and analysis of data, and interpretation of result in the study of populations. Topics include the collection and analysis of capture-mark-recapture data, survival analysis, density estimation, analysis and quantification of population dynamics, the effects of predators on insect population dynamics, and the effects of herbivores on plant population dynamics. Equivalent to BIOL-657. Prerequisites: take BIOL-3322, BIOL-3323 and take STAT-4219 or STAT-6219.

BIOL-6660 Ecological Methods: Communities (2.00 cr.)

For environmental biology students. One of three core courses on field methods in ecology. Covers basic field techniques, planning of field experiments, collection and analysis of data, and interpretation of results used in the study of natural communities. Topics will include landscape interpretation, topographic and vegetation mapping, analyses of forest communities, age structure in trees, and basic ordination techniques. Equivalent to BIOL-660. Prerequisites: take BIOL-3322, BIOL-3323 and take STAT-4219 or STAT-6219.

BIOL-7110 Graduate Seminar (1.00 cr.)

Provides Environmental Biology Master's Degree students with practical experience in describing and discussing research, analyzing data, and presenting a paper in a journal manuscript format.

BIOL-7400 Introduction to Biological Research (2.00 cr.)

Introduces the students to the principles and procedures of scholarly research and the philosophy of graduate studies in biology. They will learn about different professional activities, methods of conducting biological research and standards for writing and editing at the graduate level. Students will develop both oral and poster presentations and identify potential funding sources.

BIOL-7701 Gross Anatomy I (3.00 cr.)

This course initiates a comprehensive study of human anatomy. An overview of each organ system is presented and the regional anatomy of much of the body is considered in detail. This course, which emphasizes the trunk, upper extremity, and reproductive systems, stresses the interrelationships of structure with function. Equivalent to BIOL-701. Corequisite course: BIOL-7702.

BIOL-7702 Gross Anatomy I Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in BIOL701. Equivalent to BIOL-702. Corequisite course: BIOL-7701.

BIOL-7706 Physiology of Disease I (3.00 cr.)

Emphasizes the physiological principles of human health and disease by examining the cell and organ physiology of the nervous, muscular, blood, immune, cardiovascular, respiratory, renal, endocrine, sensory, and digestive systems. Equivalent to BIOL-706. Corequisite course: BIOL-7707.

BIOL-7707 Physiology of Disease I Laboratory (1.00 cr.)

Covers laboratory experiments and demonstrations associated with BIOL-7706. Equivalent to BIOL-707. Corequisite course: BIOL-7706.

BIOL-7711 Gross Anatomy II (3.00 cr.)

This course is a continuation of Gross Anatomy I (BIOL-7701). The regional anatomy of the lower extremity, head, and neck are considered in detail. Equivalent to BIOL-711. Prerequisites: take BIOL-7701, BIOL-7702. Corequisite course: BIOL-7712.

BIOL-7712 Gross Anatomy II Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in BIOL-7711. Equivalent to BIOL-712. Corequisite course: BIOL-7711.

BIOL-7716 Physiology of Disease II (4.00 cr.)

This course, which is an extension of BIOL-7706, continues to emphasize the cellular mechanisms fundamental to understanding the pathological changes inherent in the most common disease states. The impact of injury, the aging process, and pharmacological interventions on the practice of physical and occupational therapy are considered. Equivalent to BIOL-716. Prerequisites: take BIOL-7706, BIOL-7707.

BIOL-7726 Neuroscience (4.00 cr.)

This course is a comprehensive study of the neurosciences, focusing on the neuroanatomy and neurophysiology of the sensory and motor nervous systems. Nervous system development, the structure and function of its cells, and the organization and function of the brain and spinal cord are emphasized. Other topics include muscle and the neuromuscular junction, ascending and descending pathways in the spinal cord, the anatomy and function of the visual and auditory systems, arousal, sleep, and diseases of the nervous system. Laboratory studies will supplement the lecture material. Equivalent to BIOL-726. Prerequisites: take BIOL-7711, BIOL-7712.

BIOL-8000 Special Topics: Biology (1.00-4.00 cr.)

Readings and discussions of selected, special topics in animal and/or plant ecology. Potential areas include environmental toxicology, evolution, population ecology, behavior, physiological ecology, or environmental/ethical issues. Equivalent to BIOL-810.

BIOL-8830 Plant Microenvironments (2.00 cr.)

Covers environmental (including pollutants) and endogenous mechanisms controlling the various phases typical of the flowering plant cycle, such as seed dormancy; seed germination; flowering; and fruit ripening. The phenomenology of each phase is studied along with its history and current state of research. Equivalent to BIOL-830. Prerequisites: take CHEM-3531, CHEM-3532, BIOL-4460, BIOL-4461. Corequisite course: BIOL-8831.

BIOL-8831 Plant Microenvironments Laboratory (1.00 cr.)

Students will participate in a series of laboratory and/or field projects appropriate to the topics covered in BIOL-8830. Each laboratory project will center on the physiology or specific phase in the flowering plant life cycle. Equivalent to BIOL-831. Corequisite course: BIOL-8830.

BIOL-8840 Microbial Ecology (2.00 cr.)

Comprehensive coverage of the principles, methodologies, and applications used to describe the ecology of microorganisms. This course covers microbial ecology and evolution, population interactions, microbial communities and ecosystems, biogeochemical cycling, and the biotechnological aspects of microbial ecology. Equivalent to BIOL-840. Prerequisites: take BIOL-3322, BIOL-3323, BIOL-4430, BIOL-4431. Corequisite course: BIOL-8841.

BIOL-8841 Microbial Ecology Laboratory (1.00 cr.)

This laboratory course focuses on experiments and activities designed to quantitatively and/or qualitatively examine microbial populations and population interactions, microbial communities and ecosystems, biogeochemical cycling, and the biotechnological aspects of the ecology of microbes from various environmental samples. Equivalent to BIOL-841. Corequisite course: BIOL-8840.

BIOL-8850 Environmental Physiology (2.00 cr.)

Emphasizes the comparative physiology of specialized adaptations, including osmoregulation, thermoregulation, endocrinology, locomotion mechanics, energy expenditure, allometry, and sensory, respiratory, and cardiovascular physiology. Equivalent to BIOL-850. Prerequisites: take CHEM-3531, CHEM-3532, BIOL-4450, BIOL-4451. Corequisite course: BIOL-8851.

BIOL-8851 Environmental Physiology Laboratory (1.00 cr.)

Covers laboratory experiments and demonstrations associated with Environmental Physiology lecture, BIOL-8850. Student designed research projects and proposals complement the lab work. Equivalent to BIOL-851. Corequisite course: BIOL-8850.

BIOL-8860 Ecosystem Ecology (2.00 cr.)

Addresses interactions between organisms and their environment with an emphasis on the ecosystem level. Analyses processes such as energy flow, nutrient cycling, and water balance in the atmosphere-soil-vegetation systems are analyzed. Discusses influences of human and natural disturbances on ecological processes and sustainable ecosystem management principles. Equivalent to BIOL-860. Prerequisites: take BIOL-3322, BIOL-3323, BIOL-4460, BIOL-4461. Corequisite course: BIOL-8861.

BIOL-8861 Ecosystem Ecology Laboratory (1.00 cr.)

Provides the students the opportunity to participate in a series of laboratory and/or field projects appropriate to the topics covered in BIOL-8860: Ecosystem Ecology. Each laboratory project will focus on the spatial and temporal changes of environmental parameter (energy flow, radiation, light, temperature, humidity, wind, nutrient states, and water balance) in the atmosphere-soil-vegetation systems within the plant ecosystems. Equivalent to BIOL-861. Corequisite course: BIOL-8860.

BIOL-8870 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or projects in biology under the supervision of the faculty. Equivalent to BIOL-870.

BIOL-8880 Internship (1.00-4.00 cr.)

Designed to provide biology students with supervised practical experiences in applied settings. Equivalent to BIOL-880.

BIOL-8990 Graduate Thesis/Project (1.00-6.00 cr.)

Provides the environmental biology student with the opportunity to synthesize and integrate their graduate work by developing and completing a research thesis or project. The subject of the research should be consistent with the student's goals and faculty expertise. Equivalent to BIOL-890.

BIOL-8998 Research Presentation (1.00 cr.)

Students will provide an oral and written account of their research, which will be evaluated by the research advisor and research committee. Writing format will follow thesis/project guidelines for graduate work. The oral presentation will follow a format consistent with presentations of research papers at professional meetings and will be evaluated by the research advisor and research committee. Research presentations will be open to all students and faculty. Students should enroll during the final term of their research or the term of their graduation. Equivalent to BIOL-899. Prerequisite: take BIOL-8990.

BIOL-8999 Directed Scholarship: Masters in Environmental Biology (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in the graduate program while completing requirements for their degree and must have received a grade of "CO" in BIOL-8990 or BIOL-8998. Note: This course is variable in credit hours, repeatable for a maximum of two times per course (BIOL-8990 or BIOL-8998, and is P/NC grading option.) Equivalent to BIOL-898.

Business Law

BLAW-2100 Business Law I (3.00 cr.)

An introduction to the American legal system followed by study of the following substantive areas of law: contracts, personal property, bailments, sales, agency. The principles discussed are applicable to personal as well as business use, and non-business students wanting to become more knowledgeable "consumers of law" are encouraged to enroll. Equivalent to BLAW-325.

BLAW-3100 Business Law II (3.00 cr.)

The study of law relating to business organization and the financing of transactions. Topics include partnerships, corporations, securities regulation, commercial paper, credit, secured transactions, and bankruptcy. Equivalent to BLAW-326. Prerequisite: take BLAW-2100.

Chemistry

CHEM-1110 Cooking with Chemistry (3.00 cr.)

Introduces non-science majors to the fundamental principles of chemical science and examines chemical changes that result from cooking processes. Prerequisite: take MATH-1423. Corequisite course: CHEM-1115.

CHEM-1111 Chemical Science Foundations I (3.00 cr.)

Introduces the fundamental principles of chemical science and examines material changes in our universe that are the result of chemical processes. Designed for non-science majors. Equivalent to CHEM-306.

CHEM-1112 Chemical Science Foundations Laboratory (1.00 cr.)

Covers basic laboratory techniques as performed on a variety of samples. Illustrates fundamental chemical principles and environmental analyses through laboratory experiments. Designed for elementary education majors and for students requiring a general education physical science laboratory course. Equivalent to CHEM-307. Corequisite course: CHEM-1111.

CHEM-1113 Chemical Science Foundations II (3.00 cr.)

Continuation of CHEM-1111. Covers chemical reactions, equilibrium, reaction rates, carbon chemistry, and introduction to the chemistry of living systems. Equivalent to CHEM-308. Prerequisite: take CHEM-1111.

CHEM-1115 Cooking with Chemistry Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-1110. Corequisite course: CHEM-1110.

CHEM-3135 Chemical Safety (1.00 cr.)

Examines chemical safety issues with an emphasis on issues relating to academic laboratories, including handling and storage of chemicals, use of safety equipment, electrical safety, and right-to-know and other legal aspects of safety. Equivalent to CHEM-350.

CHEM-3145 Chemistry and Ethics (1.00 cr.)

Examines issues in chemistry and relates them to the writings of several philosophers as they pertain to ethics. Equivalent to CHEM-351.

CHEM-3233 Analytical Chemistry (3.00 cr.)

Covers fundamental methods of chemical analysis. Discusses acid-base, solubility, and redox equilibrium, volumetric, gravimetric, potentiometric, and spectrophotometric analytical methods and separation techniques. Note: Students should have completed one year of freshman chemistry with laboratory and algebra. Equivalent to CHEM-315.

CHEM-3234 Analytical Chemistry Laboratory (1.00 cr.)

Laboratory experiments associated with Analytical Chemistry lecture. Classical laboratory techniques including volumetric titrations, gravimetric analysis, potentiometry, spectrometric analysis, and chemical separations are performed. Equivalent to CHEM-316. Corequisite course: CHEM-3233.

CHEM-3513 Introduction to Organic Chemistry (3.00 cr.)

One term survey course in organic chemistry designed for students in health-related fields (nursing, occupational therapy, etc.). Organic functional groups are emphasized. This course does not provide adequate preparation for Organic Chemistry II. Equivalent to CHEM-322.

CHEM-3514 Introduction to Organic Chemistry Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-3513. Equivalent to CHEM-323. Corequisite course: CHEM-3513.

CHEM-3531 Organic Chemistry I Lecture (3.00 cr.)

The first term of a two-term sequence (CHEM-3531 and CHEM-3533). Covers applications of modern principles of chemistry to elucidate structure, reactivity, and physical and spectroscopic properties of organic compounds. Chemical bonds, molecular structure, functional groups, stereochemistry of organic compounds, and mechanisms of organic reactions are emphasized. UV-visible, IR, and NMR spectroscopy are included for structure elucidation of organic compounds. Equivalent to CHEM-341.

CHEM-3532 Organic Chemistry I Laboratory (1.00 cr.)

Covers organic laboratory techniques (mostly microscale) including methods of separation, purification, and identification of organic compounds. Techniques include melting point and boiling point determinations, refractive index, recrystallization, simple distillation, fractional distillation, extraction, column chromatography, thin layer chromatography, and gas chromatography. Ultraviolet-visible, infrared, and proton nuclear magnetic resonance spectroscopy techniques are covered for structure elucidation of organic compounds. Equivalent to CHEM-342. Corequisite course: CHEM-3531.

CHEM-3533 Organic Chemistry II Lecture (3.00 cr.)

The second term of a two-term sequence (CHEM-3531 and CHEM-3533). Covers applications of modern principles of chemistry to elucidate structure, reactivity, and physical and spectroscopic properties of organic compounds. Chemical bonds, molecular structure, functional groups, stereochemistry of organic compounds, mechanisms of organic reactions, and synthesis of organic compounds are emphasized. Computer molecular modeling is also included. Equivalent to CHEM-343. Prerequisite: take CHEM-3531.

CHEM-3534 Organic Chemistry II Laboratory (1.00 cr.)

Organic laboratory techniques (mostly microscale) used to conduct synthesis, isolation, purification, and characterization of organic compounds are performed by students. Ultraviolet-visible, infrared, and proton nuclear magnetic resonance spectroscopic techniques are utilized for structure elucidation of the synthesized compounds. Equivalent to CHEM-344. Prerequisite: take CHEM-3532.

CHEM-3631 Comprehensive Physical Chemistry (3.00 cr.)

One-semester survey course in physical chemistry for students enrolled in physical or life sciences. Topics include principles of thermodynamics, kinetics, and quantum mechanics.

CHEM-3641 Physical Chemistry I Lecture (3.00 cr.)

This course discusses the principles and applications of physical and mathematical methods to describe chemical systems. The topics include properties of ideal and non-ideal gases, thermodynamic principles and applications, chemical equilibria, and phase diagrams. Equivalent to CHEM-366. Prerequisites: take CHEM-3233, CHEM-3234.

CHEM-3642 Physical Chemistry I Laboratory (1.00 cr.)

Demonstrates the principles and practice of physical-chemical measurements. Laboratory experiments include molecular weight determination, high vacuum line techniques, heats of solution using solution calorimeter, heat of combustion using bomb calorimeter, vapor pressure, and heat of vaporization of volatile liquids, as well as chemical computations. Equivalent to CHEM-367. Corequisite course: CHEM-3641.

CHEM-3643 Physical Chemistry II Lecture (3.00 cr.)

This course is a continuation of CHEM-3641 and covers the principles and applications of physical and mathematical methods of chemical systems. The topics covered include the following: thermodynamics of solutions, electrochemistry, quantum and atomic structure, statistical mechanics, spectroscopy, photochemistry, and kinetics. Equivalent to CHEM-368. Prerequisite: take CHEM-3641.

CHEM-3644 Physical Chemistry II Laboratory (1.00 cr.)

This course is a continuation of CHEM-3642. Topics include determination of equilibrium constants using UV-VIS spectrophotometer, colligative properties of organic compounds using freezing point depression and boiling point elevation apparatus, kinetics of inversion of sucrose using polarimeter, viscosity of liquids, acquisition of kinetic and thermodynamic parameters by NMR and chromatography, laser spectroscopy, and chemical computation. Equivalent to CHEM-369. Prerequisite: take CHEM-3643.

CHEM-4155 Chemical Literature (1.00 cr.)

This Internet course acquaints students with major sources in chemical information literature and provides guidance and practice in their efficient utilization. Includes utilization of indices, abstracts, online databases, websites, and other sources to identify specific information resources in chemistry. Consideration is given to how information is organized and stored for retrieval. Equivalent to CHEM-455. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-4443 Advanced Inorganic Chemistry (3.00 cr.)

Structure and bonding of inorganic compounds, symmetry and group theory, extension of acid-base theory, coordination chemistry, oxidation-reduction reactions, and the descriptive chemistry of selected elements. Lecture-discussion format. Equivalent to CHEM-433. Prerequisites: take CHEM-3643, CHEM-4743.

CHEM-4444 Advanced Inorganic Chemistry Laboratory (1.00 cr.)

An introduction to the experimental study of the synthesis, decomposition, and stability of a variety of inorganic compounds. Equivalent to CHEM-434. Corequisite course: CHEM-4443.

CHEM-4542 Analytical Organic Chemistry Laboratory (1.00 cr.)

Covers experiments associated with analytical chemistry and organic laboratory techniques (mostly microscale). The analytical chemistry experiments include volumetric titrations, potentiometry, spectrometric analysis, and chemical separations. Includes organic chemistry experiments including methods of separation, purification, and identification of organic compounds and synthetic techniques for organic compounds. This course does not count towards any degree requirement. Equivalent to CHEM-502.

CHEM-4551 Comprehensive Organic Chemistry (3.00 cr.)

Covers applications of modern principles of chemistry to elucidate structure, reactivity, and physical properties of organic compounds. Chemical bonds, molecular structure, functional groups, stereochemistry of organic compounds, organic reactions, and reaction mechanisms are emphasized. This course does not count towards any degree requirement. Equivalent to CHEM-515.

CHEM-4552 Introduction to Chemistry Software and Molecular Modeling (1.00 cr.)

Introduces various chemistry software for drawing organic, inorganic, and biological molecules in two and three dimensions, and for calculations involving molecular mechanics and molecular modeling to predict organic reaction mechanisms. Equivalent to CHEM-452. Prerequisite: take CHEM-3533.

CHEM-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in chemistry under the supervision of the faculty. Prerequisite: Equivalent to CHEM-470. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-4743 Instrumental Analysis (3.00 cr.)

Surveys basic instrumental analysis, including gas chromatography, liquid chromatography, atomic absorption and emission spectroscopy, infrared and Raman spectroscopy, ultraviolet spectroscopy and nuclear magnetic resonance spectrometry, mass spectrometry, X-ray spectroscopy, electrochemical analysis, and surface characterizations. Equivalent to CHEM-426. Prerequisites: take CHEM-3233, CHEM-3641.

CHEM-4744 Instrumental Analysis Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-4743, including atomic absorption, atomic emission, mass spectrometry, UV-VIS, infrared, fluorescence, ¹H NMR, gas chromatography, HPLC, and voltammetry. Equivalent to CHEM-427. Corequisite course: CHEM-4743.

CHEM-4752 Practical Chemistry Instrumentation (1.00 cr.)

Introduces the student to the basic principles of HPLC, GC, UV-Vis detector, and gas and liquid sample handling system troubleshooting, maintenance, and repair in a practical "hands on" laboratory format. Safety and accepted industry practices will be stressed throughout the course. Equivalent to CHEM-560. Prerequisites: take CHEM-3233, CHEM-3641.

CHEM-4952 Organic Synthesis and Structural Methods (2.00 cr.)

Covers organic laboratory techniques for multi-step synthesis of organic compounds and their structural determination by chemical and spectroscopic (IR, UV, and NMR) methods. The course includes inert atmosphere and advanced separation techniques. Equivalent to CHEM-450. Prerequisites: take CHEM-3533, CHEM-3534.

CHEM-4962 Undergraduate Research Experience (2.00 cr.)

Provides an opportunity to actively participate in an ongoing research project in chemistry. Students are expected to attend and make presentations at group meetings, perform literature searches, and conduct laboratory investigations. Equivalent to CHEM-485. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-4980 Internship (1.00-4.00 cr.)

Designed to provide chemistry students with supervised practical experiences in applied settings. Equivalent to CHEM-480. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-4990 Chemistry Research (1.00-3.00 cr.)

Laboratory or theoretical investigation of a problem in chemical research performed under the supervision of a faculty member. In the research setting students will further develop laboratory and analytical skills introduced in chemistry course work. Student research results will be presented in a written report, according to departmental guidelines, conference presentations strongly recommended. Equivalent to CHEM-490. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-5035 Chemistry Workshop (1.00 cr.)

Each chemistry workshop examines a selected topic in the chemical sciences. Explores the scientific, chemical, societal, and policy dimensions of a selected area of chemical practice or chemical discovery. Topics may vary. May be repeated for credit. Only workshops with a prerequisite of either organic chemistry or physical chemistry can be taken as advanced selectives by chemistry majors who want to achieve ACS certification of their chemistry degree. Equivalent to CHEM-501. Prerequisites: take CHEM-3533, CHEM-3641.

CHEM-5145 Environmental Chemistry Lecture (3.00 cr.)

Covers chemical principles and their application to environmental problems. Topics include the source, chemical composition, nature, and effects of principal pollutants. Also covers the treatment and disposal of domestic and industrial waste and techniques for detecting and analyzing chemical pollutants. Equivalent to CHEM-505. Prerequisites: take CHEM-3533, CHEM-3534, CHEM-4744.

CHEM-5146 Environmental Chemistry Laboratory (1.00 cr.)

Practical work with highly analytical chemistry content to monitor the environment. Analytical methods involve gathering and storage of environmental samples for chemical analysis; chromatographic and other techniques for the separation of chemical compounds; and computational methods for presenting analytical results and assessing their precision, accuracy, and significance. Equivalent to CHEM-506. Corequisite course: CHEM-5145.

CHEM-5157 Polymer Chemistry (3.00 cr.)

This course discusses a broad range of topics, including basic concepts in polymer chemistry, morphology, rheology and solubility, molecular weight, testing and characterization of polymers, naturally occurring polymers, step-reaction, ionic, addition and free radical chain polymerization reactions, copolymerization, inorganic-organic polymers, plasticizers and other additives, as well as polymer technology. Audio-visual tapes are used to bring industrial processes to campus-bound participants. Laboratory demonstrations will supplement lecture material. Equivalent to CHEM-550. Prerequisites: take CHEM-3531, CHEM-3532, CHEM-3641, CHEM-3642.

CHEM-5167 Industrial Chemistry (3.00 cr.)

A treatment of some reaction chemistry, chemical processes, thermodynamics, chemical equilibria, and kinetics that are important to the chemical industry. Fundamental principles and problems of the chemical industry will also be discussed. Equivalent to CHEM-535. Prerequisites: take CHEM-3641, CHEM-3533.

CHEM-5331 Biochemistry Lecture (3.00 cr.)

An introduction to the fundamentals of biochemistry, including chemistry of living organisms, structures of biomolecules, and a survey of metabolism. Equivalent to CHEM-544. Prerequisite: take CHEM-3533.

CHEM-5332 Biochemistry Laboratory (1.00 cr.)

Laboratory component of CHEM-5331. Equivalent to CHEM-545. Corequisite course: CHEM-5331.

CHEM-5333 Biochemistry II (3.00 cr.)

Covers metabolism and biosynthesis of carbohydrates, amino acids, and lipids. Biosynthesis of nucleotides, structure of RNA and DNA, DNA replication, repair, and recombination. Equivalent to CHEM-546. Prerequisite: take CHEM-5331.

CHEM-5757 Introduction to Proteomics (3.00 cr.)

A computer based learning program, which presents an overview of the processes, equipment and applications of mass spectrometry to protein analysis. Equivalent to CHEM-547. Prerequisite: take CHEM-5331.

CHEM-6100 Introduction to Graduate Studies in Analytical Chemistry (1.00 cr.)

Provides an introduction to graduate study in analytical chemistry. Discusses topics in physical chemistry, inorganic chemistry, organic chemistry, and biochemistry. Equivalent to CHEM-600.

CHEM-6443 Inorganic Spectroscopy (2.00 cr.)

An advanced study of the theory and applications of essential topics in inorganic and bioinorganic spectroscopy. The topics include: rotational, vibrational, electronic, photoelectron, electron paramagnetic resonance, circular dichroism, Mossbauer, nuclear magnetic resonance, and X-ray spectroscopies. Equivalent to CHEM-831. Corequisite course: CHEM-6444, CHEM-4443.

CHEM-6444 Inorganic Spectroscopy Laboratory (1.00 cr.)

Spectroscopy is one of the fundamental tools used to characterize industrial inorganic chemicals, advanced materials, and bioinorganic chemicals. Provides students with hands-on opportunities to apply important spectroscopic techniques used for the analysis of inorganic materials. Students will analyze, interpret, and report the results of their investigations. Equivalent to CHEM-832. Corequisite course: CHEM-6443.

CHEM-6542 Analytical Organic Chemistry Laboratory (1.00 cr.)

Covers experiments associated with analytical chemistry and organic laboratory techniques (mostly microscale). The analytical chemistry experiments include volumetric titrations, potentiometry, spectrometric analysis, and chemical separations. Includes organic chemistry experiments including methods of separation, purification, and identification of organic compounds and synthetic techniques for organic compounds. This course does not count towards any degree requirement. Equivalent to CHEM-502.

CHEM-6543 Organic Spectroscopy (2.00 cr.)

Covers fundamental principles of spectroscopy, ultraviolet-visible, infrared, proton, and carbon-13 nuclear magnetic resonance, and fluorescence spectroscopy for characterization and determination of organic compounds. Equivalent to CHEM-661. Prerequisite: take CHEM-3533. Corequisite course: CHEM-6544.

CHEM-6544 Organic Spectroscopy Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-6543. Hands-on experience with the UV-VIS, IR, NMR, and fluorescence spectrophotometers is available through comprehensive laboratory experiments. Equivalent to CHEM-662. Corequisite course: CHEM-6543.

CHEM-6551 Comprehensive Organic Chemistry (3.00 cr.)

Covers applications of modern principles of chemistry to elucidate structure, reactivity, and physical properties of organic compounds. Chemical bonds, molecular structure, functional groups, stereochemistry of organic compounds, organic reactions, and reaction mechanisms are emphasized. This course does not count towards any degree requirement. Equivalent to CHEM-515.

CHEM-6552 Chemistry Software and Molecular Modeling (1.00 cr.)

Covers use of various chemistry software for drawing organic, inorganic, and biological molecules in two and three dimensions, and for calculations involving molecular mechanics and molecular modeling to predict organic reaction mechanisms. Equivalent to CHEM-652. Prerequisite: take CHEM-3533.

CHEM-6733 Chromatography (3.00 cr.)

This course examines the theory, practice, and instrumentation of chromatographic separations, with special emphasis on thin-layer, column, paper, and liquid chromatography. Introduction to gas chromatography/mass spectrometric technique is also covered. Equivalent to CHEM-622. Prerequisites: take CHEM-3533, CHEM-3641, CHEM-4744. Corequisite course: CHEM-6734.

CHEM-6734 Chromatography Laboratory (1.00 cr.)

Laboratory experiments associated with this course include the following topics: preparation and use of TLC plates for the separation of organic compounds; packed and capillary gas chromatographic analysis of environmental samples; column chromatography of organometallic compounds; paper chromatography of amino acid mixtures, pesticides residue analysis by electron capture gas chromatography; HPLC of food preservatives and computerized GC/MS analysis of volatile organics. Equivalent to CHEM-623. Corequisite course: CHEM-6733.

CHEM-7333 Analytical Biochemistry (2.00 cr.)

Presents basic procedures for cell fractionation and for isolation and characterization of biopolymers. Equivalent to CHEM-744. Prerequisite: take CHEM-5331.

CHEM-7334 Analytical Biochemistry Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-7333. Students isolate organelles and biopolymers and characterize them by techniques that include photomicrography, spectrophotometry, polyacrylamide electrophoresis, fluorometry, nephelometry, and ultracentrifugation. Equivalent to CHEM-745. Corequisite course: CHEM-7333.

CHEM-7447 Transition Metal and Organometallic Chemistry (2.00 cr.)

Presents the chemistry of the transition elements, particularly the organometallic chemistry of those elements. The mechanisms of stoichiometric and catalytic transformations of small molecules will be presented. The bonding theory descriptions of such reactions will be emphasized. Equivalent to CHEM-633. Prerequisite: take CHEM-4443.

CHEM-7537 Advanced Organic Chemistry (3.00 cr.)

Covers molecular structures including stereochemistry of organic compounds; structure and detection of organic reactive intermediates; mechanisms of organic reactions including linear free energy relationships, isotope effects, molecular orbital theory, photochemistry, and pericyclic reactions. Equivalent to CHEM-641. Prerequisite: take CHEM-3533.

CHEM-7557 Chemistry of Biomolecules (3.00 cr.)

Covers synthesis and reactions of amino acids and polypeptides, including solid phase synthesis, and introduces student to combinational chemistry. Equivalent to CHEM-672. Prerequisites: take CHEM-5331, CHEM-5332.

CHEM-7667 Photochemistry (3.00 cr.)

Covers physical and organic aspects of photochemistry in terms of the fates that can befall excited species. Introduces photochemistry of normal and polluted atmospheres, photosynthesis, vision, photography, photobiochemistry, polymer photochemistry, photodynamic therapy, and other important subject areas. Demonstrations and discussions of experimental techniques will give practical experience to the theories covered in class. Equivalent to CHEM-862. Prerequisite: take CHEM-6543.

CHEM-8057 Special Topics: Chemistry (3.00 cr.)

Examines specialized topics in chemistry. Topics will vary. May be repeated for credit. Equivalent to CHEM-810. Prerequisites: take CHEM-6443, CHEM-6543, CHEM-6733.

CHEM-8157 Methods Development (3.00 cr.)

Concentrates on methods development in the analytical laboratory with applications in pharmaceutical, food product, cosmetics, and environmental testing. Focuses on methods development and optimization to satisfy regulatory and customer requirements, validating analytical methods, application of newer analytical methods, and those involved in quality control, quality assurance, and quality assessment. Includes development and use of statistical process control as tools to improve quality and productivity. Equivalent to CHEM-840. Prerequisite: take CHEM-6733.

CHEM-8733 Mass Spectrometry (3.00 cr.)

Introduces the principles and theory of mass spectral analysis. Includes the basic theory of ion formation and behavior, instrumentation and the interpretation of the spectra of organic molecules. Deals with basic mass spectrometry as well as major areas of application. Discusses the important hybrid techniques of gas chromatography-mass spectrometry and liquid chromatography-mass spectrometry. Equivalent to CHEM-827. Prerequisite: take CHEM-6733. Corequisite course: CHEM-8734.

CHEM-8734 Mass Spectrometry Laboratory (1.00 cr.)

Covers experiments associated with CHEM-8734. Includes hands-on laboratory work for the basic principles of GC/MS and LC/MS operation and theory of mass spectral analysis. Covers instrumentation, data acquisition, and interpretation of spectra of organic molecules. Equivalent to CHEM-828. Prerequisite: take CHEM-3643. Corequisite course: CHEM-8733.

CHEM-8753 Electrochemistry (3.00 cr.)

Introduces the theory and practice of electrochemical techniques with a focus on electroanalytical methods. Presents the techniques of potentiometry, conductance measurements, coulometry, and voltammetry. Includes new developments in electrochemical detection, spectroelectrochemical studies, and chemically modified electrodes. Equivalent to CHEM-855. Prerequisite: take CHEM-3643 CHEM-4443.

CHEM-8754 Electrochemistry Laboratory (1.00 cr.)

Covers laboratory experiments associated with CHEM-8753. Equivalent to CHEM-856. Corequisite course: CHEM-8753.

CHEM-8763 NMR Spectroscopy (3.00 cr.)

Provides treatment of the theories and applications of modern Fourier transform nuclear magnetic resonance (FT-NMR) spectroscopy. Applications of FT-NMR spectroscopy to the investigation and solution of chemical problems will be emphasized. Equivalent to CHEM-668. Prerequisites: take CHEM-6543, CHEM-6544. Corequisite course: CHEM-8764.

CHEM-8764 NMR Spectroscopy Laboratory (1.00 cr.)

Provides practical experience with an FT-NMR spectrometer. Activities covered range from FT-NMR fundamentals such as the shimming of samples and the determination of 90 pulse lengths through standard FT-NMR techniques such as decoupling experiments, variable temperature investigations, and the use of auxiliary reagents, to advanced 2D and 3D experiments. Equivalent to CHEM-669. Corequisite course: CHEM-8763.

CHEM-8920 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in chemistry under the supervision of the faculty. Equivalent to CHEM-870. Prerequisites: take CHEM-6443 or CHEM-6543 and take CHEM-6733.

CHEM-8930 Graduate Chemistry Literature Project (1.00-3.00 cr.)

Provides analytical chemistry students the opportunity to synthesize graduate work by developing and completing an in-depth chemistry literature project specific to the student's interest in chemistry and related to a faculty member's research. Students write a literature report, and make a formal presentation in a separate course, CHEM-8997. Equivalent to CHEM-892. Prerequisites: take CHEM-6443 or CHEM-6543 and take CHEM-6733.

CHEM-8940 Internship (1.00-4.00 cr.)

Designed to provide chemistry students with supervised practical experiences in applied settings. Equivalent to CHEM-880.

CHEM-8950 Graduate Research Project (1.00-3.00 cr.)

Provides the analytical chemistry students the opportunity to synthesize graduate work by developing and completing a research project specific to the student's interest in chemistry and related to a faculty member's research. Students write a project report, and make a formal presentation in a separate course, CHEM-8997. Equivalent to CHEM-891. Prerequisites: take CHEM-6443 or CHEM-6543 and take CHEM-6733.

CHEM-8959 Graduate Thesis Literature Search (1.00 cr.)

Provides the analytical chemistry students the opportunity to synthesize graduate work by developing and completing an in-depth thesis specific to the student's interest in chemistry and related to a faculty member's research. Students start this work by doing a literature search for a specific problem. Equivalent to CHEM-889. Prerequisites: take CHEM-6443 or CHEM-6543 and take CHEM-6733.

CHEM-8960 Graduate Thesis Project (1.00-5.00 cr.)

Provides the analytical chemistry students the opportunity to synthesize graduate work by developing and completing an in-depth thesis specific to the student's interests in chemistry and related to a faculty member's research. Students write an in-depth thesis, and make a formal presentation in a separate course. Equivalent to CHEM-890. Prerequisite: take CHEM-8959.

CHEM-8995 Chemistry Colloquium Series (1.00 cr.)

Provides students with the opportunity to observe presentations by scientists from academia, industry, and government. Students are required to attend at least eight chemistry colloquia during their enrollment at GSU. This colloquium series serves as the forum for CHEM-8997, Presentation in Chemistry. Equivalent to CHEM-895. Corequisite courses: CHEM-8930, CHEM-8940, CHEM-8950, CHEM-8960.

CHEM-8997 Research Presentation in Chemistry (1.00 cr.)

Students completing their graduate research will present a seminar on their research project in a format similar to a presentation of a paper at a professional meeting. Students should enroll during their final term of graduate research or the following term. Equivalent to CHEM-899. Prerequisites: take CHEM-8930, CHEM-8940, CHEM-8950, or CHEM-8960.

CHEM-8999 Directed Scholarship: Masters in Analytical Chemistry (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must receive a grade of "CO" in CHEM-8959, CHEM-8960, CHEM-8950, or CHEM-8930. Note: This course is variable (1-2) in credit hours, repeatable (not replaceable) for a maximum of two times per course (CHEM-8959, CHEM-8960, or CHEM-8930), and is P/NC grading option. Equivalent to CHEM-898.

Communication Disorders

CDIS-2100 Introduction to Sign Language (3.00 cr.)

Enables the student to acquire basic conversational sign language skills. Discusses deaf awareness and the different systems of signed communication. Equivalent to CDIS-305.

CDIS-3100 Intermediate Sign Language (3.00 cr.)

Designed to facilitate development of intermediate to advanced-level conversational sign language skills. Equivalent to CDIS-306. Prerequisite: take CDIS-2100.

CDIS-3200 Advanced Sign Language (3.00 cr.)

American Sign Language is the third most used language in the United States today. It is the native language of the American deaf. Students, who already have a comprehensive vocabulary, will learn how to use English (hearing) idioms and American Sign Language colloquialisms and idiomatic expressions. Students will engage in roundtable class conversation with the instructor, each other and visitors, deaf and hearing. This class will fine tune signing skills and clean up production and concept problems. It will also introduce interpreting skills and generally prepare the student for conversing and working with persons whose primary language is American Sign Language. Equivalent to CDIS-307. Prerequisite: take CDIS-3100.

CDIS-3300 Introduction to Communication Disorders (3.00 cr.)

Study of the major types of communication disorders, their effects on the communicatively impaired individual, and basic remediation programs. Equivalent to CDIS-310.

CDIS-3400 Phonetics (3.00 cr.)

Studies the transcription of speech using the International Phonetic Alphabet and the manner, type, and place of articulation of each of the sounds of American speech. Equivalent to CDIS-304.

CDIS-3500 Speech and Hearing Science (3.00 cr.)

Study of sound generation and transmission, measurement and analysis of sound, and psychophysical methods. Topics include psychoacoustics and speech production, acoustics, and perception. Equivalent to CDIS-330.

CDIS-3600 Anatomy and Physiology of Speech and Hearing (3.00 cr.)

Examines the anatomy, physiology, and neurology of processes related to speech production. Topics include respiration, phonation, articulation, and hearing. Equivalent to CDIS-345.

CDIS-4100 Language Development: Early Stages (3.00 cr.)

A course on development in oral, manual, and written modalities, focusing on oral language acquisition (phonology, syntax, morphology, semantics, and pragmatics) and emergent literacy in the birth through preschool period. Equivalent to CDIS-511. Prerequisite: take CDIS-3400.

CDIS-4150 Language Development: Later Stages (3.00 cr.)

Focuses on language development from kindergarten through adolescence, the relationship between language learning in oral and written modalities, the overlap between disorders of oral and written language, and the importance of language skills in school performance. Equivalent to CDIS-520. Prerequisite: take CDIS-3400.

CDIS-4200 Sociolinguistics (3.00 cr.)

This course examines the major regional and social dialects in the United States with emphasis on the nonstandard varieties of English spoken by African Americans and Hispanic Americans. The course explores the educational, linguistic and cultural aspects of non-mainstream dialect usage. The course will also examine some important concepts and issues in sociolinguistics such as language change and the social and media generators, gender differences in language, language and identity, language as a social marker, how culture is reflected through language, figurative language (slang) and other sociolinguistic concepts and issues. Equivalent to CDIS-440. Prerequisite: take CDIS-3400.

CDIS-4300 Neuroscience for the Study of Communication Disorders (3.00 cr.)

Covers neurological and physiological bases for speech and language behavior and disorders. Focuses on neuroanatomy and neurophysiology of the sensory and motor systems. Emphasizes CNS development, the structure and function of cells, and the organization and function of the brain and spinal cord. Includes the visual and auditory systems. Provides laboratory experiences that complement course content. Equivalent to CDIS-540. Prerequisite: take CDIS-3600.

CDIS-4400 Introduction to Audiology (3.00 cr.)

Covers the prevention, identification, and evaluation of hearing disorders. Topics include basic audiologic evaluation, physiological methods in audiology, auditory disorders, audiologic screening, and assessment of infants and children. Equivalent to CDIS-410. Prerequisite: take CDIS-3500.

CDIS-4500 Introduction to Assessment and Intervention in Communication Disorders (3.00 cr.)

Examines principles and procedures of assessing and treating disorders of human communication. Equivalent to CDIS-450. Prerequisite: take CDIS-3300.

CDIS-4600 Augmentative and Alternative Communication (3.00 cr.)

Introduces students to the process of clinical evaluation and treatment of individuals who are nonverbal. Covers augmentative and alternative communication systems, assessment, and treatment methods. Equivalent to CDIS-530. Prerequisite: take CDIS-3300.

CDIS-4700 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in communication disorders under the supervision of the faculty. Equivalent to CDIS-470.

CDIS-4800 Internship (1.00-8.00 cr.)

Designed to provide the communication disorders student with supervised practicum experiences in applied settings. Equivalent to CDIS-480.

CDIS-6100 Professional and Scientific Foundations of Communication Disorders (3.00 cr.)

Explores issues related to evidence-based, ethical practice in speech-language pathology. Develops bases for finding, analyzing, evaluating and communicating scholarly findings in communication disorders. Reviews how ethical considerations may be incorporated into scholarly research procedures and in general clinical practice where data about treatment efficacy/effectiveness are obtained. Equivalent to CDIS-600.

CDIS-6200 Advanced Assessment and Intervention in Speech-Language Pathology (3.00 cr.)

Applies the principles of assessment and treatment of individuals with speech and language disorders. Develops related professional skills and processes. Equivalent to CDIS-650.

CDIS-7100 Fluency Disorders: Evaluation and Treatment (3.00 cr.)

Examines the various theories of stuttering and corresponding therapies. Attention to current stuttering research, development, and implementation of a stuttering therapy program. Equivalent to CDIS-730.

CDIS-7200 Voice and Resonance Disorders (3.00 cr.)

Teaches evaluative and therapeutic aspects of voice and resonance disorders. Examines anatomy and physiology of phonation and oral/nasal resonance and normal embryology of the velopharynx. Provides an introduction to laryngectomy rehabilitation and consultative aspects associated with cleft lip/palate. Equivalent to CDIS-700.

CDIS-7300 Aural Rehabilitation: Principles and Procedures (3.00 cr.)

Incorporates processes of normal and disordered speech/language perception to develop assessment and intervention procedures for clients with auditory disability. Discusses amplification and counseling. Equivalent to CDIS-770.

CDIS-7400 Speech Sound Disorders in Children (3.00 cr.)

Reviews the study of normal and disordered articulation. Includes traditional views of articulation disorders and their treatment, as well as current treatment methods derived from the study of phonology. Provides the opportunity to develop and analyze articulation therapy programs. Equivalent to CDIS-705.

CDIS-7500 Child Language Disorders: Early Stages (3.00 cr.)

Assessment and treatment of children with language disorders, focusing on the period from birth to age five. Includes discussion of emergent literacy, assistive technology, family-centered intervention, NICU, developmentally young clients, computer-based language sample analysis, and informal assessment. Equivalent to CDIS-710.

CDIS-7550 Child Language Disorders: Later Stages (3.00 cr.)

Assessment and treatment of children with language disorders, focusing on school-age and adolescence. Includes discussion of literacy, narrative analysis, pragmatic intervention, inclusion, alternative service delivery models, classroom and group dynamics, formal and informal assessment, and the transitioning to adulthood. Equivalent to CDIS-720.

CDIS-7600 Adult Language and Cognitive Disorders (3.00 cr.)

Examines the historical, neuroanatomical, etiological, cognitive, and linguistic aspects of aphasia and related disorders that result from conditions such as stroke, traumatic brain injury, and dementia. Emphasizes assessment and treatment of language and cognitive disorders in adults. Equivalent to CDIS-740.

CDIS-7700 Motor Speech Disorders: Differential Diagnosis and Treatment (3.00 cr.)

Investigates the differential diagnosis and common treatment approaches for motor speech disorders resulting from congenital, acquired/non-progressive, and degenerative/progressive neurological disorders (e.g., Parkinson's Disease). Analyzes diagnostic and treatment methods related to the various subsystems of respiration, phonation, articulation, resonance, and prosody. Equivalent to CDIS-750.

CDIS-7800 Dysphagia in Adults and Children(3.00 cr.)

Examines the anatomy and physiology of the swallow and the clinical evaluation and treatment of swallowing disorders in adults and children. Issues related to various etiologies, assessment techniques, management strategies, and ethical considerations will be discussed. Equivalent to CDIS-760.

CDIS-8000 Current Topics (1.00-3.00 cr.)

Explores current clinical and scientific issues in communication disorders. Focuses on significant topics in speech, language, and hearing. Designed for practicing graduate students in communication disorders and practicing speech-language pathologists and audiologists. Topics will vary; may be repeated for credit. Equivalent to CDIS-805.

CDIS-8100 Professional Development Seminar in Communication Disorders (1.00 cr.)

Reviews the history of the professions of speech-language pathology and audiology, and the development of ethical and professional standards. Requirements for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association, licensure in Illinois, and public school certification for speech-language professionals are described. Provides instruction on completion of the Knowledge and Skills Acquisition (KASA) document and the role of the KASA in formative assessment. This course is available only online. Equivalent to CDIS-815.

CDIS-8200 Foundations of Clinical Practice (1.00 cr.)

Facilitates the development of clinical decision-making skills. Topics include scope of practice in speech-language pathology, ethics, problem solving in assessment and management, evidence-based practice, and interdisciplinary collaboration. Linguistic and cultural diversity, federal and state laws and regulations, and policies and procedures relevant to specific work settings also are reviewed. Equivalent to CDIS-830.

CDIS-8300 Qualifying Exams in Communication Disorders (1.00 cr.)

Students prepare for and take examinations drawn from the didactic course work in Communication Disorders. Emphasis is on integration of material and clinical problem-solving. Results are used as a formative assessment. Equivalent to CDIS-835.

CDIS-8700 Independent Study (1.00-8.00 cr.)

Students arrange individual reading, research, and/or project in communication disorders under the supervision of the faculty. Equivalent to CDIS-870.

CDIS-8800 Internship (1.00-9.00 cr.)

Students arrange individual reading, research, and/or project in communication disorders under the supervision of the faculty. Equivalent to CDIS-880.

CDIS-8810 Practicum in Speech-Language Pathology: Special Populations (6.00 cr.)

Pass qualifying examination. Students enrolled in thesis option must have an approved thesis proposal. Permission of Director of Clinical Education. Equivalent to CDIS-853.

CDIS-8820 Practicum in Speech-Language Pathology: Public School 6.00 cr.)

Pass qualifying examination. Students enrolled in thesis option must have an approved thesis proposal. Permission of Director of Clinical Education. Equivalent to CDIS-854.

CDIS-8830 Practicum in Speech-Language Pathology: Medical Setting (6.00 cr.)

Pass qualifying examination. Students enrolled in thesis option must have an approved thesis proposal. Permission of Director of Clinical Education. Equivalent to CDIS-858.

CDIS-8840 Practicum in Audiology: (1.00 cr.)

External practicum in audiometric assessment. May include pure-tone threshold audiometry, speech audiometry, hearing screening using conventional pure-tone air conduction methods, otoscopic inspection, otoacoustic emissions (OAE) screening, and screening tympanometry. Equivalent to CDIS-850.

CDIS-8850 Practicum in Audiology: Rehabilitation (1.00 cr.)

Pass qualifying examination. Students enrolled in thesis option must have an approved thesis proposal. One graduate practicum in Speech-Language Pathology. Permission of Director of Clinical Education. Equivalent to CDIS-852.

CDIS-8900 Graduate Thesis/Project: (3.00 cr.)

Provides the communication disorders student the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in communication disorders. Equivalent to CDIS-890.

Communication Studies

COMS-3100 Intro to Communications (3.00 cr.)

Designed to serve as an introduction and orientation to undergraduate work in the communications fields. Should be taken in the first term of undergraduate work in communications. Equivalent to COMS-300.

COMS-3101 Concept of Human Communications (3.00 cr.)

Examines the communication process on the basic levels and contexts of communication, intra-interpersonal, small group, and organizational communications. Examines verbal, nonverbal, and intercultural communication behaviors; recognizes vital electronic communication processes in light of their broad ramifications. Equivalent to COMS-310.

COMS-3160 Public Address and Interpretation (3.00 cr.)

Introduces basic principles of public address and rhetorical analysis. Applies theories of speaking to typical speaking environments to develop delivery and analytical skills. Equivalent to COMS-369.

COMS-4050 Communication Workshop (1.00-3.00 cr.)

Designed to apply concepts of human communication to a specific social and professional setting. Topics of this workshop vary according to the specific content areas being covered. Focuses on developing participants' practical knowledge and skills of communication that are crucial to a given social/professional context. Equivalent to COMS-505.

COMS-4090 Topics in Communication (3.00 cr.)

A special topics course exploring selected issues in Communication Studies in depth. Addresses several aspects of the topic using a variety of methodologies, theories, and/or perspectives. May be repeated for credit. Equivalent to COMS-5090, COMS-509. Prerequisites: take COMS-3100, COMS-3101.

COMS-4100 Communication Theory (3.00 cr.)

Surveys theoretical developments in the field of communication while exploring major theoretical paradigms that inform and guide the study of human communication. Students receive insight into the significance and meaning of their own communication activities and discover how theories provide complementary and viable explanations of communication in humanistic, political, and cultural contexts. Equivalent to COMS-410. Prerequisites: take COMS-3100, COMS-3101.

COMS-4110 Communication Research (3.00 cr.)

Examines methods of design and data analysis in communication research. Topics include field/lab research design, intercultural research problems, sampling reliability and validity tests, quantitative/qualitative analysis, cultural studies, time services analysis, sociometric analysis, and report writing. Equivalent to COMS-406.

COMS-4125 Listening (3.00 cr.)

Examines the styles of listening in communication and applies them in the different contexts of the communication process. Develops sensitivity and effective listening skills in human interaction. Equivalent to COMS-5125, COMS-531.

COMS-4130 Interpersonal Communication (3.00 cr.)

This course is designed to explore theoretical and practical perspectives of the communication process between two or more individuals. This course explores many of the various forms of interpersonal communication, such as self-talk, non-verbals, listening, boundaries and personal space, and the importance of each person's perception and perspective. This is a writing intensive class that also requires involvement in class discussions and exercises. Equivalent to COMS-430.

COMS-4135 Nonverbal Communication (3.00 cr.)

Students examine nonverbal elements of human communication, consider body movement, space behavior, time orientation and management, and aesthetic and environmental factors. Students analyze interpersonal communication settings in terms of their nonverbal function, value, and meaning. Equivalent to COMS-5135, COMS-532.

COMS-4140 Family Communication (3.00 cr.)

Family Communication is a TV course that explores family interaction patterns. Examines the ways in which family members communicate, make decisions, settle conflict, and learn to relate to one another. This course is especially relevant because of the profound changes that are currently affecting the family unit. More children are born to single parents, more families have both partners working, more couples are commuting, more couples are divorcing, and more stepfamilies are being formed than ever before. Equivalent to COMS-5140, COMS-534.

COMS-4160 Persuasion Theory Practice (3.00 cr.)

Examines major theories of persuasion, especially as related to oral communication. Applies these theories to interpersonal, social, political, and organizational change. Students create and present persuasive messages and analyze persuasive messages and campaigns. Equivalent to COMS-469.

COMS-4330 Intrapersonal Communication (3.00 cr.)

Designed to explore theoretical and practical perspectives of the communication process within the individual. Explores aspects and influences of the physiological, symbolic, emotional, mental components of messages at many levels consciousness as individuals attempt to understand themselves, their interactions, and their relationship to the environment. Equivalent to COMS-539. Prerequisite: take COMS-3101.

COMS-4400 Corporate and Community Communication (3.00 cr.)

Examines communication networks and the power structure in corporations and communities and investigates public and interpersonal messages in those environments. Applies systems concepts and analyzes case studies. Equivalent to COMS-445.

COMS-4425 Group Communication and Leadership (3.00 cr.)

This highly interactive class introduces students to a systems approach to group interaction, and development of leadership skills. The topics covered are: relationship within and between groups, development of emerging leadership within groups, group social influences, inter and intra group conflict, effective group members and group leaders, stages of group or team development, and group composition and group member roles. These topics will be studied through readings, research, discussion, and large and small group process. Equivalent to COMS-5425, COMS-546.

COMS-4435 Conflict Management (3.00 cr.)

Explores constructive conflict to initiate change. Examines the channeling of spontaneous conflict to create resolution and the releasing of chronic conflict to aid in harmonious relations among people in work situations. Integrate theory and technique from behavioral sciences with insights about the work force. Equivalent to COMS-547. Prerequisite: take COMS-3101.

COMS-4452 Communicating with Clients and Customers (3.00 cr.)

Focuses on interpersonal communication skills for effective management of customer/client relations. Identifies key characteristics of successful verbal and nonverbal skills essential to enhancing the quality of communication with customers/clients in service-oriented professions such as sales, marketing, legal counseling, financial counseling, social work, and food services. Equivalent to COMS-5452, COMS-552.

COMS-4460 Business and Professional Speaking (3.00 cr.)

This course examines speech communication theory and practice with major emphasis on applications in the corporate work environment. It includes practical training in group/team communication, business interviewing, management-employee relations (especially listening), and an emphasis on oral presentations. Equivalent to COMS-536.

COMS-4500 Political Communication (3.00 cr.)

Examines campaign communication in the context of political campaigns. Attention is given to the public relations elements of campaigns in multiple media to show how political candidates earn America's attention and the people's votes. Application of these tactics in other contexts are also discussed. Equivalent to COMS-555.

COMS-4560 Debate and Public Advocacy (3.00 cr.)

Study of argumentation, that is, evidence, reasoning, and construction of briefs; practice in formal and informal forms of debate and public discourse on current public questions. Equivalent to COMS-535.

COMS-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in speech-communication studies under the supervision of the faculty. Equivalent to COMS-470.

COMS-4705 Intercultural Communication (3.00 cr.)

Surveys communication transactions between members of differing cultures and studies definitions, models, values, beliefs, customs, and attitudes that affect intercultural communication. Relates culture to social perception and communication patterns. Examines culture-specific as well as cross-cultural modes of communication and identifies factors that impede effective intercultural understanding. Equivalent to COMS-515. Prerequisites: take COMS-3100, COMS-3101.

COMS-4710 Culture and Communication (3.00 cr.)

Explores the relationship between culture and communication. Examines differences in customs, practices, philosophy and religion, social institutions, values and attitudes. Investigates communicative behaviors within and across cultural spaces. Equivalent to COMS-516. Prerequisites: take COMS-3100, COMS-3101.

COMS-4720 Communication and Identity (3.00 cr.)

Examines identity from a critical/poststructuralist position, approaching the notion of identity as a discursive production within complex systems of power. Analyzes how discourse influences personal identity construction and the ways it constructs ideas about other identities (gender, race, sexuality, etc.). Explores how identity is shaped by rhetorical, discursive, and non-discursive practices; and how identity construction is situated in historical/social/political/ideological contexts. Equivalent to COMS-5720, COMS-520. Prerequisite: take COMS-3100.

COMS-4750 Critical Gender and Sexuality (3.00 cr.)

Approaches the study of gender and sexuality from a critical/cultural studies perspective, emphasizing intersectionality. Examines the interplay of gender, sex, and sexuality in communication practices and social institutions. Interrogates the role of power, hierarchy, and ideology in the construction of gendered and sexual identities. Equivalent to COMS-522. Prerequisites: take COMS-3100, or COMS-3101.

COMS-4780 Rhetoric and Popular Culture (3.00 cr.)

This course explores the relationship between U.S. culture and popular, mass-mediated texts from a variety of communication perspectives. It focuses on the critical analysis of popular culture within social and political contexts and emphasizes multicultural influences and representations in everyday life. It examines popular culture as a source and site of personal, social and cultural identities. Equivalent to COMS-525. Prerequisites: take COMS-3100, COMS-3101.

COMS-4800 Internship (1.00-4.00 cr.)

Designed to provide the speech-communication studies student with supervised, practical experiences in applied settings. Equivalent to COMS-480.

COMS-4850 Communication Ethics (3.00 cr.)

Examines the principles of personal, public, and media ethics. Historical and contemporary approaches to ethical behavior and explored. Current issues serve as a focus for class discussion and assignments. Equivalent to COMS-5100, COMS-511. Prerequisite: take COMS-3100.

COMS-5050 Communication Workshop (1.00-3.00 cr.)

Designed to apply concepts of human communication to a specific social and professional setting. Topics of this workshop vary according to the specific content areas being covered. Focuses on developing participants' practical knowledge and skills of communication that are crucial to a given social/professional context. Equivalent to COMS-505.

COMS-5140 Family Communication (3.00 cr.)

Family Communication is a TV course that explores family interaction patterns. Examines the ways in which family members communicate, make decisions, settle conflict, and learn to relate to one another. This course is especially relevant because of the profound changes that are currently affecting the family unit. More children are born to single parents, more families have both partners working, more couples are commuting, more couples are divorcing, and more stepfamilies are being formed than ever before. Equivalent to COMS-4140, COMS-534.

COMS-5350 Gender Communication (3.00 cr.)

Designed to apply concepts of human communication to female/male interactions and sex role identities. The focus is on a systems approach to gender where similarities between men and women are explored. Students will be encouraged to develop experiential knowledge and new communication skills and appreciate their own female or male identities. Equivalent to COMS-537.

COMS-5365 Advertising as Communication (3.00 cr.)

Examines the nature and process of communication as it relates to advertising and provides a basic introduction into the planning and execution of advertising and promotion within the context of marketing goals and objectives. Equivalent to COMS-565.

COMS-6090 Topics in Communication (3.00 cr.)

A special topics course exploring selected issues in Communication Studies in depth. Addresses several aspects of the topic using a variety of methodologies, theories, and/or perspectives. May be repeated for credit. Equivalent to COMS-5090, COMS-509. Prerequisites: take COMS-3100, COMS-3101.

COMS-6100 Introduction to Graduate Communication (3.00 cr.)

Designed to serve as an introduction to graduate work in the communications and human performance and training fields. Should be taken in the first semester of graduate work in communications and training. Equivalent to COMS-600.

COMS-6125 Listening (3.00 cr.)

Examines the styles of listening in communication and applies them in the different contexts of the communication process. Develops sensitivity and effective listening skills in human interaction. Equivalent to COMS-5125, COMS-531.

COMS-6135 Nonverbal Communication (3.00 cr.)

Students examine nonverbal elements of human communication, consider body movement, space behavior, time orientation and management, and aesthetic and environmental factors. Students analyze interpersonal communication settings in terms of their nonverbal function, value, and meaning. Equivalent to COMS-5135, COMS-532.

COMS-6300 Humanistic Communication (3.00 cr.)

Explores an alternative way to understand the field of communication studies. Designed to investigate communication by considering the multiple ways in which it is used to interact with others. Examines communication as a function of human consciousness and systems theory. Designed to encourage students to consider the profound effects of intrapersonal and interpersonal communication. Equivalent to COMS-630. Prerequisite: take COMS-6100.

COMS-6330 Intrapersonal Communication (3.00 cr.)

Designed to explore theoretical and practical perspectives of the communication process within the individual. Explores aspects and influences of the physiological, symbolic, emotional, mental components of messages at many levels consciousness as individuals attempt to understand themselves, their interactions, and their relationship to the environment. Equivalent to COMS-539. Prerequisite: take COMS-3101.

COMS-6425 Group Communication and Leadership (3.00 cr.)

This highly interactive class introduces students to a systems approach to group interaction, and development of leadership skills. The topics covered are: relationship within and between groups, development of emerging leadership within groups, group social influences, inter and intra group conflict, effective group members and group leaders, stages of group or team development, and group composition, and group member roles. These topics will be studied through readings, research, discussion, and large and small group process. Equivalent to COMS-5425, COMS-546.

COMS-6435 Conflict Management (3.00 cr.)

Explores constructive conflict to initiate change. Examines the channeling of spontaneous conflict to create resolution and the releasing of chronic conflict to aid in harmonious relations among people in work situations. Integrate theory and technique from behavioral sciences with insights about the work force. Equivalent to COMS-547. Prerequisite: take COMS-3101.

COMS-6500 Political Communication (3.00 cr.)

Examines campaign communication in the context of political campaigns. Attention is given to the public relations elements of campaigns in multiple media to show how political candidates earn America's attention and the people's votes. Application of these tactics in other contexts are also discussed. Equivalent to COMS-555.

COMS-6560 Debate and Public Advocacy (3.00 cr.)

Study of argumentation, that is, evidence, reasoning, and construction of briefs; practice in formal and informal forms of debate and public discourse on current public questions. Equivalent to COMS-535.

COMS-6705 Intercultural Communication (3.00 cr.)

Surveys communication transactions between members of differing cultures and studies definitions, models, values, beliefs, customs, and attitudes that affect intercultural communication. Relates culture to social perception and communication patterns. Examines culture-specific as well as cross-cultural modes of communication and identifies factors that impede effective intercultural understanding. Equivalent to COMS-515.

COMS-6710 Culture and Communication (3.00 cr.)

Explores the relationship between culture and communication. Examines differences in customs, practices, philosophy and religion, social institutions, values, and attitudes. Investigates communicative behaviors within and across cultural spaces. Equivalent to COMS-516.

COMS-6720 Communication and Identity (3.00 cr.)

Examines identity from a critical/poststructuralist position, approaching the notion of identity as a discursive production within complex systems of power. Analyzes how discourse influences personal identity construction and the ways it constructs ideas about other identities (gender, race, sexuality, etc.). Explores how identity is shaped by rhetorical, discursive, and non-discursive practices; and how identity construction is situated in historical/social/political/ideological contexts. Equivalent to COMS-5720, COMS-520. Prerequisite: take COMS-3100.

COMS-6750 Critical Gender and Sexuality (3.00 cr.)

Approaches the study of gender and sexuality from a critical/cultural studies perspective, emphasizing intersectionality. Examines the interplay of gender, sex, and sexuality in communication practices and social institutions. Interrogates the role of power, hierarchy, and ideology in the construction of gendered and sexual identities. Equivalent to COMS-522.

COMS-6780 Rhetoric and Popular Culture (3.00 cr.)

This course explores the relationship between U.S. culture and popular, mass-mediated texts from a variety of communication perspectives. It focuses on the critical analysis of popular culture within social and political contexts and emphasizes multicultural influences and representations in everyday life. It examines popular culture as a source and site of personal, social, and cultural identities. Equivalent to COMS-525.

COMS-7110 Research Methods I (3.00 cr.)

Enables students to gain familiarity with the scope of research literature in the human communication and performance and technology fields. Additionally, students will examine methods of design and data analysis in communication research. Topics include field/lab research design, sampling reliability and validity tests, quantitative/qualitative analysis, time series analysis, and report writing. Students would finish the course able to construct a research proposal including a literature review and method design. Equivalent to COMS-606.

COMS-8050 Seminar in Communication Studies (1.00-3.00 cr.)

A graduate seminar exploring a selected issue in communication or a current perspective in communication studies. Will focus on theories and methods appropriate to the topic. Equivalent to COMS-805.

COMS-8060 Seminar in Political Communication (3.00 cr.)

This course is a graduate seminar exploring selected issues in political communication. Classes will address topics in elections, campaign, advertising, debates, and the like. Classes will focus the material from a mass communication and rhetorical perspective; courses are not geared toward multimedia production. Equivalent to COMS-869.

COMS-8070 Seminar in Critical Cultural Communication (3.00 cr.)

A special topics course exploring selected issues in Critical/Cultural Studies and Communication in depth. Addresses several aspects of the topic using a variety of methodologies, theories, and/or perspectives. May be repeated for credit. Equivalent to COMS-829. Prerequisite: take COMS-6100.

COMS-8110 Research Methods II (3.00 cr.)

This course enables students to gain familiarity with the scope of research literature in the human communication and performance and technology fields. Additionally, students will examine methods of design and data analysis in communication research. Topics include field/lab research design, sampling reliability and validity tests, quantitative/qualitative analysis, time series analysis, and report writing. Students should finish the course able to construct a research proposal including a literature review and method design. Equivalent to COMS-806. Prerequisite: take COMS-7110.

COMS-8130 Interpersonal Communication (3.00 cr.)

Focuses on interpersonal communication as it is grounded in intrapersonal communication. Through the exploration of theories of intrapersonal communication, the course will develop theories and processes for effective interpersonal communication. Equivalent to COMS-830.

COMS-8190 Philosophy of Communication (3.00 cr.)

Examines how and why we communicate from the perspectives of modern and postmodern philosophies. Studies various theories of communication and their philosophical foundations. Equivalent to COMS-610. Prerequisite: take COMS-6100.

COMS-8330 Communication and Consciousness (3.00 cr.)

Offers students an opportunity to explore intrapersonal communication in-depth and investigate the connections between systems theory, quantum mechanics, and research in human consciousness. The course also focuses on a student's personal understanding of their own intrapersonal experiences. Equivalent to COMS-839.

COMS-8400 Organizational Communication (3.00 cr.)

Designed to help students analyze the human elements involved in the functioning of an organization, to better understand the role of a change agent in the planning and application of organizational communication change and development strategies, and to evaluate the present and potential impact of organizational change/development communication applications. Equivalent to COMS-845.

COMS-8440 Interdisciplinary Team Process (3.00 cr.)

This course will bring together graduate students from many disciplines to learn effective communication and processing skills that will allow them to develop the understanding necessary for effective collaboration. This course will use communication and team building skills to demonstrate the value of interdisciplinary approaches. Such an interdisciplinary approach will show students effective techniques for valuing and educating client/customers, identifying and overcoming barriers to effective client/customer service, and leading to outcomes desired by the client/customer. Equivalent to COMS-864.

COMS-8460 Communication Training (3.00 cr.)

Examines various approaches to developing and implementing communication training programs. Theories of interpersonal communication are utilized in identifying and evaluating interpersonal effectiveness. Particular emphasis is given to training programs that are designed to help individuals maximize effectiveness in dealing with members of different ethnic/cultural groups. Equivalent to COMS-860.

COMS-8480 International Communications (3.00 cr.)

Provides an introduction to a broad range of concepts and issues in the study of communication between and within the international systems, while focusing on culture and communication as essential components of international political and business organizations, diplomatic relations, and nation states. It examines differences in cultural mindsets, emphasizing the role of mass, interpersonal, and technological communication in international conflicts, as well as in promoting cooperative actions. Equivalent to COMS-645.

COMS-8700 Graduate Research (1.00-4.00 cr.)

Individual readings, research, and/or project in communication studies under the supervision of the faculty. Equivalent to COMS-870.

COMS-8790 Teaching Communication and Critical Pedagogy (3.00 cr.)

Explores the intersections of critical pedagogical theory and teaching practices within the undergraduate communication classroom. Designed to assist students in understanding the principles necessary for effective design, delivery and evaluation of communication instruction based on an awareness of differing learning styles, subject content, educational settings, and learning outcomes. Equivalent to COMS-828. Prerequisite: take COMS-6100.

COMS-8800 Internship (1.00-4.00 cr.)

Designed to provide the communication studies student with supervised practical experiences in applied settings. Equivalent to COMS-880.

COMS-8970 Graduate Capstone Internship (3.00-6.00 cr.)

Provides the communication studies student the opportunity to synthesize graduate work by developing and completing an internship specific to the student's interests in communication.

COMS-8980 Graduate Project (3.00-6.00 cr.)

Provides the communication studies student the opportunity to synthesize graduate work by developing and completing a project specific to the student's interest in communication. Equivalent to COMS-881.

COMS-8990 Graduate Thesis (3.00-6.00 cr.)

Provides the communication studies student the opportunity to synthesize graduate work by developing and completing a thesis specific to the student's interest in communication. Equivalent to COMS-882.

COMS-8999 Directed Scholarship: Masters in Communication and Training (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in the graduate program while complementing requirements for their degree and must have received a grade of "CO" in COMS-8800, COMS-8980, or COMS-8990.

NOTE: This course is variable (1-2) in credit hours, repeatable for a maximum of three times per course, and is P/NC grading option. Prerequisites: take COMS-8970, COMS-8980, or COMS-8990.

Computer Science

CPSC-2005 Introduction to Computer Technology (3.00 cr.)

Covers computer hardware, software, applications, and future technology. Presents an overview of all aspects of computer technology via readings, videotapes, and microcomputer lab exercises. Major topics include evolution of the computer industry, interactive and batch processing systems, input and output processes and devices, information systems interfaces, internal processing and data representation, file organization and database concepts, data communication, application software, programming languages, operating systems and systems software, systems analysis and design, and computers in society. Provides extensive hands-on use of microcomputers. Equivalent to CPSC-305.

CPSC-3120 Computer Programming: Visual BASIC (3.00 cr.)

Introduces computer programming in Visual Basic through analyzing problems, developing solution algorithms, and writing well documented program corresponding to these algorithms using window programming, input/output operations, numeric and string constants and variables, control statements, arrays, functions, subroutines, and data files. Equivalent to CPSC-320. Prerequisites: take CPSC-2005, MATH-2131.

CPSC-3121 Computer Programming: QBASIC and Visual BASIC Laboratory (1.00 cr.)

Involves hands-on computer exercises appropriate to the content of CPSC-3120. Students will work alone and in teams to develop programs related to course content. This is an optional laboratory that meets for two hours per week. Students for whom CPSC-3120 is the first programming course are strongly encouraged to enroll in this laboratory. Equivalent to CPSC-321. Corequisite course: CPSC-3120.

CPSC-3142 Computer Programming: Introduction to C++ (3.00 cr.)

Introduces a disciplined approach to problem-solving and algorithm development in the structured, high-level language C++. Introduces procedural abstraction, sequence control structures, including selection and repetition, data abstraction, arrays, records, files. Emphasizes program design, testing, and documentation using good programming style. Equivalent to CPSC-342.

CPSC-3143 Computer Programming: Introduction to C++ Laboratory (1.00 cr.)

Involves hands-on computer exercises appropriate to the content of CPSC-3142. Students will work alone and in teams to develop programs related to course content. This is an optional laboratory that meets for two hours per week. Students for whom CPSC-3142 is a first programming course are strongly encouraged to enroll in this laboratory. Equivalent to CPSC-343. Prerequisite: take CPSC-3142.

CPSC-3145 Computer Programming: Introduction to C++ (3.00 cr.)

Covers C++ programming with emphasis on object-oriented programming. This is a course for students with C++ programming experience. A background comparable to CPSC-3142 will be assumed. Topics will include overloading functions and operators, friend functions, and other language features which enable programmers to create new data types which have all the capabilities of the built-in types. Special emphasis will be placed on the use of pointers, dynamic allocation of memory, and the development of classes which implement common data structures such as linked lists. Students will use the ANSI C++ compiler to write, run, and debug programs. Clarity and correctness of the resulting programs will be the primary evaluation criteria. Equivalent to CPSC-345. Prerequisite: take CPSC-3142.

CPSC-3148 Computer Programming: Java (3.00 cr.)

Introduces the Java programming language, including its syntax, control structure, methods, data structures, and graphical user interface components. Students will write, run, and debug programs to run directly on personal computers and over the Internet. Emphasis will be placed on clarity and correctness of the resulting programs. Equivalent to CPSC-548. Prerequisite: take CPSC-3142.

CPSC-3265 PC Assembler (3.00 cr.)

Introduces the 8088 microprocessor, information representation inside machine, 8086/88 assembly language (DEBUG, ASM, and MASM), the PC/DOS, and the use of some BDOS functions to do I/O and file manipulations. The environment to run the assigned programs is an IBM PC or compatible computer. Requires a substantial commitment of time for the completion of programming assignments. Equivalent to CPSC-365.

CPSC-3415 Data Structures (3.00 cr.)

Advanced data structures with continuing emphasis on writing well-designed structured programs. Major topics include linked list, stack, queue, trees, graphs, algorithms, sorting, priority queues, and hashing tables. Equivalent to CPSC-415. Prerequisite: take CPSC-3142 or CPSC-3148. Corequisite course: MATH-3137.

CPSC-4137 Web Applications (3.00 cr.)

Examines web server configuration and administration, web page authoring tools, dynamic web pages for e-commerce. Discusses security, database access, and wireless services. Equivalent to CPSC-437. Prerequisite: take CPSC-3145.

CPSC-4190 Introduction to Software Engineering (3.00 cr.)

Introduction to the systems development process. Covers the system life cycle, current system documentation through use of classical, and structural tools and techniques for describing process flows, data flows, data structures, file designs, input and output designs, and program specifications. Also covers information gathering and reporting activities and transition into systems analysis and design. Equivalent to CPSC-390. Prerequisite: take CPSC-3142.

CPSC-4205 Computer Organization (3.00 cr.)

An introduction to basic topics in computer organization, including number systems, digital logic design, PC assembly language programming, CPU, memory, input/output and peripherals, buses, instruction sets and formats, and addressing techniques. Equivalent to CPSC-405. Prerequisites: take CPSC-3142, MATH-3137.

CPSC-4255 Organization of Programming Languages (3.00 cr.)

Covers the organization of programming languages, especially the run-time behavior of programs; introduces the formal study of programming languages, continues the development of problem solution and programming skills. Includes topics on language definition structure, data types and structures, control structures and data flow, run-time considerations, interpretive languages, lexical analysis, and parsing. Equivalent to CPSC-455. Prerequisites: take CPSC-4205, CPSC-3415.

CPSC-4335 Operating Systems (3.00 cr.)

An introduction to basic topics of operating systems, including computer system structure, operating system design, process management, memory management, I/O management, deadlock handling, process synchronization, system protection, and security. Equivalent to CPSC-435. Prerequisites: take CPSC-4205, CPSC-3415.

CPSC-4338 Discrete Structures (3.00 cr.)

Continuing survey of foundations of discrete mathematics, covering linear algebra, counting methods, sequences, discrete probability, and topics from theoretical computer science. Equivalent to CPSC-438. Prerequisite: take MATH-3137.

CPSC-4341 Introduction to Data Communications (3.00 cr.)

A study of data communications for computers and computer terminals. Consideration of communications media, codes, data transmission, protocols, multiplexing, circuit-switching, packet-switching, communications software, and Local Area Networks (LAN). Equivalent to CPSC-441. Prerequisite: take CPSC-4335.

CPSC-4342 Introduction to Computer Networks (3.00 cr.)

A study of computer networks, including overview of network architectures, layered architectures, and the Open System Interconnection (OSI) reference model, routing and congestion control, protocols, local area networks, Integrated Services Digital Networks (ISDN), and network security. Equivalent to CPSC-442. Prerequisite: take CPSC-4335.

CPSC-4345 Database Systems (3.00 cr.)

Practical development of a database, i.e., requirement analysis, functional specifications, database design, and implementation are the main focus of the course. Topics include data redundancies, data independence, role and functionality of DBMS in database processing, database modeling using entity relationship and semantic object models, building relationships, relational model vs. network and hierarchical models, functional dependencies, normal forms, normalization, extracting the data model from database model, using Bachman diagram to document the data model, data dictionary, data integrity and data security rules, query languages: SQL and QBE, client/server architecture, and distributed databases. More emphasis is given to the fundamentals of database processing and design of the data model. Equivalent to CPSC-445. Prerequisite: take CPSC-3415.

CPSC-4346 Network Configuration and Integration (3.00 cr.)

This course explores networking by using a hands-on lab to instruct students how to design, install, configure, and troubleshoot a live network. Equivalent to CPSC-446. Prerequisite: take CPSC-4205.

CPSC-4350 Introduction to Algorithms (3.00 cr.)

Development and analysis of algorithms for problem-solving in computer science. Emphasizes issues of complexity of algorithms, efficiency, and reliability. Covers sorting, searching, string processing, graph, and mathematical algorithms. Equivalent to CPSC-450. Prerequisites: take CPSC-3415, MATH-3137.

CPSC-4358 Database Programming (3.00 cr.)

Covers advanced programming in a database environment using block structured languages, database query language interfaces, and program development languages. Equivalent to CPSC-458. Prerequisite: take CPSC-4345.

CPSC-4520 Windows Programming: Visual Basic.NET II (3.00 cr.)

Explores the character and features of the event driven Visual Basic.NET programming language to create sophisticated Visual Basic.NET applications for .NET platform to solve problems. Covers interface management system, design, and implementation of online applications, object-oriented features, relational databases, report generations, and Internet applications. Equivalent to CPSC-520. Prerequisite: take CPSC-3142.

CPSC-4535 Introduction to the UNIX System (3.00 cr.)

With features fitting for mainframe systems down to microcomputers, UNIX is a dominant system today. This course provides a structured means for students who want to learn the state-of-the-art of the UNIX environment. Equivalent to CPSC-535. Prerequisite: take CPSC-4335.

CPSC-4540 Digital Forensics (3.00 cr.)

Provides concepts and theory of file systems and applies them to digital investigations from real cases using analysis tools. Discusses processes and methodologies that an administrator or incident investigator needs to take in order to collect and analyze digital evidence. Topics include data acquisition, file system analysis, incident response methodology, evidence analysis, and incident response tools. Equivalent to CPSC-540. Prerequisites: take CPSC-6535, CPSC-6570.

CPSC-4542 Contemporary Issues - Digital Forensics (3.00 cr.)

A review of contemporary issues concerning the impact of digital forensics on the criminal justice system, and on criminal justice system professionals. Explores current and emerging legal and ethical issues impacting the digital forensics field, research and development in the digital forensics field, and human resources issues pertaining to the impact of technology on law enforcement and prosecution. Equivalent to CPSC-542. Prerequisite: take CPSC-4570.

CPSC-4551 Computer Graphics for Games, Film, and Visualization (3.00 cr.)

Introduces the core concepts of 3D computer graphics as applied to interactive games, animated feature films and scientific visualizations. Students learn high-performance techniques using modern features of the latest cross-platform OpenGL API and the OpenGL Shading language. Students are exposed to conceptual building blocks and graphics algorithms as usable tools to make their own unique 3D graphics. Prerequisite: take CPSC-3145.

CPSC-4562 Numerical Algorithms (3.00 cr.)

Major topics include floating-point arithmetic, direct and iterative methods for solving systems of linear equations, error analysis and norms, eigenvalues and eigenvectors, root-finding methods, polynomial interpolation, linear and nonlinear approximation of functions, numerical differentiation and integration, and the solution of differential equations. Students should allow ample time in their schedules for working with a computer outside of class. Equivalent to CPSC-562. Prerequisites: take MATH-2281, MATH-3449.

CPSC-4565 3D Modeling (3.00 cr.)

Use industry standard animation software to construct detailed computer based 3D models. Explore the process of creating an environment. Prop a character with several surface editing techniques. Apply translate, rotate, and scale tools to manipulate the geometric components while learning how to create materials, texture maps, cameras and lighting to create desired mood and atmosphere. Equivalent to CPSC-565.

CPSC-4566 3D Animation (3.00 cr.)

Applies the principles of animation in a 3D computer environment by utilizing the basic concepts of timing, weight and anticipation. Explores the process of creating a 3D animation using keyframing and rigging techniques to set up model for animation. Equivalent to CPSC-566. Prerequisite: take CPSC-4565.

CPSC-4570 Windows Systems (3.00 cr.)

Teaches critical skills needed to install, configure, optimize, and troubleshoot the latest Windows Operating Systems for supporting and managing network effectively. Windows architecture, directory services, security, file systems, client administration, and networking are the major topics. Equivalent to CPSC-570. Prerequisites: take CPSC-2005, CPSC-4342.

CPSC-4572 Advanced Windows Administration(3.00 cr.)

Teaches advanced skills needed to fine-tune the latest Windows Operating Systems. Advanced topics on security, directory services, internet-working, communication and optimization are covered. Equivalent to CPSC-572. Prerequisite: take CPSC-4570.

CPSC-4576 Database Design and Administration on SQL Servers (3.00 cr.)

SQL (Structured Query Language) is the dominant language for database queries. Right now companies have to store their data in the server for data processing. Without a database server, a company cannot really manage their operation. This course is not only designed to provide the core foundation for installing, managing, and supporting Microsoft SQL server, but also designed to help students to pass the SQL examination to obtain the Microsoft Certification. Equivalent to CPSC-576. Prerequisite: take CPSC-4572.

CPSC-4578 Networking Essentials (3.00 cr.)

Prepares students for the Networking Essentials examination that is one of the requirements for obtaining Microsoft Certified Engineering certification. This course focuses on the basic concepts and avoids unnecessary detail in order to overcome the complexity of networking issues. Equivalent to CPSC-578. Prerequisite: take CPSC-2005 or CPSC-4570.

CPSC-4580 Information Security (3.00 cr.)

Explores fundamental concepts in information security. Topics include elementary cryptography, threats and countermeasures on stand alone computer systems, database security, network security, and administering security. Equivalent to CPSC-580. Prerequisite: take CPSC-4342 or MIS-3601.

CPSC-4581 Information Security Policy and Management (3.00 cr.)

Explores policy and management aspects of information security to protect computer systems and networks. Topics include security models, policy, planning, risk analysis and management, operations security, physical, personnel and administrative security, access control, security evaluation, life cycle management, software security guidelines, network security guidelines, auditing and monitoring, and legal and ethical issues. Equivalent to CPSC-581. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-4582 Cryptography and Network Security (3.00 cr.)

Focuses on algorithms and protocols that protect information in computer systems and networks. Topics include basic security concepts, cryptography (basic number theory, secret key cryptography, public key cryptography, hash functions, and key management), identification, authentication, access control, secure networking, certification, and trust management. Equivalent to CPSC-582. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-4583 Laboratory in Information Security (3.00 cr.)

Focuses on the mechanisms as well as hands-on laboratory experience of running typical security systems or security-critical software. Laboratory exercises include security policy design and management, auditing and monitoring tools, intrusion detection systems, firewalls, web server configuration and maintenance, communication security protocols configuration and maintenance, software security tools, etc. Equivalent to CPSC-583. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-4584 Special Topics in Information Security (3.00 cr.)

Focuses on special topics in information security and assurance, such as database security, operating system security, program security, and wireless security. Equivalent to CPSC-584. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in computer science under the supervision of the faculty. Equivalent to CPSC-470.

CPSC-4800 Internship (1.00-4.00 cr.)

Designed to provide computer science students with supervised experiences in applied settings. Equivalent to CPSC-480.

CPSC-4890 Computer Science Research (1.00-3.00 cr.)

Explores research and theory investigation of a problem in computer science performed under the supervision of a faculty member. Develops analytical skills introduced in computer science coursework. Equivalent to CPSC-490. Prerequisites: take CPSC-4190, CPSC-4205, CPSC-3415, CPSC-4338.

CPSC-5000 Computer Science Workshop: (1.00-3.00 cr.)

Provides an in-depth investigation of the indicated topic from computer science. Participants examines the selected topic in a workshop setting. Topics vary, ranging from the design of solutions to particular problems to reviews of existing software and hardware solutions. Equivalent to CPSC-501.

CPSC-6520 Windows Programming: Visual Basic.NET II (3.00 cr.)

Explores the character and features of the event driven Visual Basic.NET programming language to create sophisticated Visual Basic.NET applications for .NET platform to solve problems. Covers interface management system, design, and implementation of online applications, object-oriented features, relational databases, report generations, and Internet applications. Equivalent to CPSC-520. Prerequisite: take CPSC-3142.

CPSC-6535 Introduction to the UNIX System (3.00 cr.)

With features fitting for mainframe systems down to microcomputers, UNIX is a dominant system today. This course provides a structured means for students who want to learn the state-of-the-art of the UNIX environment. Equivalent to CPSC-535. Prerequisite: take CPSC-4335.

CPSC-6540 Digital Forensics (3.00 cr.)

Provides concepts and theory of file systems and applies them to digital investigations from real cases using analysis tools. Discusses processes and methodologies that an administrator or incident investigator needs to take in order to collect and analyze digital evidence. Topics include data acquisition, file system analysis, incident response methodology, evidence analysis, and incident response tools. Equivalent to CPSC-540.

CPSC-6542 Contemporary Issues - Digital Forensics (3.00 cr.)

A review of contemporary issues concerning the impact of digital forensics on the criminal justice system, and on criminal justice system professionals. Explores current and emerging legal and ethical issues impacting the digital forensics field, research and development in the digital forensics field, and human resources issues pertaining to the impact of technology on law enforcement and prosecution. Equivalent to CPSC-542.

CPSC-6548 Computer Programming: Java (3.00 cr.)

Introduces the Java programming language, including its syntax, control structure, methods, data structures, and graphical user interface components. Students will write, run, and debug programs to run directly on personal computers and over the Internet. Emphasis will be placed on clarity and correctness of the resulting programs. Equivalent to CPSC-548. Prerequisite: take CPSC-3142.

CPSC-6562 Numerical Algorithms (3.00 cr.)

Major topics include floating-point arithmetic, direct and iterative methods for solving systems of linear equations, error analysis and norms, eigenvalues and eigenvectors, root-finding methods, polynomial interpolation, linear and nonlinear approximation of functions, numerical differentiation and integration, and the solution of differential equations. Students should allow ample time in their schedules for working with a computer outside of class. Equivalent to CPSC-562.

CPSC-6565 3D Modeling (3.00 cr.)

Use industry standard animation software to construct detailed computer based 3D models. Explore the process of creating an environment. Prop a character with several surface editing techniques. Apply translate, rotate, and scale tools to manipulate the geometric components while learning how to create materials, texture maps, cameras, and lighting to create desired mood and atmosphere. Equivalent to CPSC-565.

CPSC-6566 3D Animation (3.00 cr.)

Applies the principles of animation in a 3D computer environment by utilizing the basic concepts of timing, weight and anticipation. Explores the process of creating a 3D animation using keyframing and rigging techniques to set up model for animation. Equivalent to CPSC-566. Prerequisite: take CPSC-6565.

CPSC-6570 Windows Systems (3.00 cr.)

Teaches critical skills needed to install, configure, optimize, and troubleshoot the latest Windows Operating Systems for supporting and managing network effectively. Windows architecture, directory services, security, file systems, client administration, and networking are the major topics. Equivalent to CPSC-570.

CPSC-6572 Advanced Windows Administration (3.00 cr.)

Teaches advanced skills needed to fine-tune the latest Windows Operating Systems. Advanced topics on security, directory services, Internet-working, communication and optimization are covered. Equivalent to CPSC-572. Prerequisite: take CPSC-4570.

CPSC-6576 Database Design and Administration on SQL Servers (3.00 cr.)

SQL (Structured Query Language) is the dominant language for database queries. Right now companies have to store their data in the server for data processing. Without a database server, a company cannot really manage their operation. This course is not only designed to provide the core foundation for installing, managing, and supporting Microsoft SQL server, but also designed to help students to pass the SQL examination to obtain the Microsoft Certification. Equivalent to CPSC-576. Prerequisite: take CPSC-4572.

CPSC-6578 Networking Essentials (3.00 cr.)

Prepares students for the Networking Essentials examination that is one of the requirements for obtaining Microsoft Certified Engineering certification. This course focuses on the basic concepts and avoids unnecessary detail in order to overcome the complexity of networking issues. Equivalent to CPSC-578. Prerequisite: take CPSC-2005 or CPSC-4570.

CPSC-6580 Information Security (3.00 cr.)

Explores fundamental concepts in information security. Topics include elementary cryptography, threats and countermeasures on stand alone computer systems, database security, network security, and administering security. Equivalent to CPSC-580. Prerequisite: take CPSC-4342 or MIS-3602.

CPSC-6581 Information Security Policy and Management (3.00 cr.)

Explores policy and management aspects of information security to protect computer systems and networks. Topics include security models, policy, planning, risk analysis and management, operations security, physical, personnel and administrative security, access control, security evaluation, life cycle management, software security guidelines, network security guidelines, auditing and monitoring, and legal and ethical issues. Equivalent to CPSC-581. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-6582 Cryptography and Network Security (3.00 cr.)

Focuses on algorithms and protocols that protect information in computer systems and networks. Topics include basic security concepts, cryptography (basic number theory, secret key cryptography, public key cryptography, hash functions, and key management), identification, authentication, access control, secure networking, certification, and trust management. Equivalent to CPSC-582. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-6583 Laboratory in Information Security (3.00 cr.)

Focuses on the mechanisms as well as hands-on laboratory experience of running typical security systems or security-critical software. Laboratory exercises include security policy design and management, auditing and monitoring tools, intrusion detection systems, firewalls, web server configuration and maintenance, communication security protocols configuration and maintenance, software security tools, etc. Equivalent to CPSC-583. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-6584 Special Topics in Information Security (3.00 cr.)

Focuses on special topics in information security and assurance, such as database security, operating system security, program security, and wireless security. Equivalent to CPSC-584. Prerequisites: take CPSC-4580, MIS-4580.

CPSC-6610 Computing for Scientists (3.00 cr.)

Provides students in the sciences with the practical background they will need to apply computers to a wide variety of scientific endeavors. It will feature the study of word processing, spreadsheets, and databases with emphasis on those features of these common packages that will be most useful in their scientific work. In addition, students will be introduced to a number of more specialized scientific software packages. Equivalent to CPSC-610.

CPSC-6622 Special Topics in Digital Forensics (3.00 cr.)

Discusses advanced topics in digital forensics using original research and innovative applications in the emerging discipline. Areas of coverage may include mobile device forensics, web browser forensics, root-kits and kernel-level compromises, applications and investigative techniques. Equivalent to CPSC-622. Prerequisite: take CPSC-4540.

CPSC-6635 UNIX Programming (3.00 cr.)

Concentrates on the programming interface that exists between the UNIX kernel and the applications software that runs in the UNIX environment. Library routines are also covered. Equivalent to CPSC-635. Prerequisite: take CPSC-4535.

CPSC-6642 Network Programming (3.00 cr.)

There has been an explosive growth in computer networks since the 1980s. The development of software to be used in these networks is still considered a mysterious art by some. The intent of this course is to concentrate on the development of software to use a computer network. This course provides the needed knowledge to develop networking software by studying numerous cases of existing network applications. Equivalent to CPSC-642. Prerequisite: take CPSC-6635.

CPSC-6648 Advanced Programming Using Java (3.00 cr.)

Covers advanced techniques for creation of application programs using Java language. This course provides the needed knowledge to build web-based enterprise applications. Emphasis will be placed on platform independence, extensibility, reusability, and global language support. Equivalent to CPSC-648. Prerequisite: take CPSC-3148.

CPSC-6660 Artificial Intelligence (3.00 cr.)

Covers artificial intelligence frameworks, methodology, and applications. Includes topics on AI problems and problem spaces, basic problem-solving methods, game playing, knowledge representation, planning systems, expert systems, natural language processing, perception, learning, and AI languages and systems. Equivalent to CPSC-660. Prerequisites: take CPSC-3415, MATH-2281.

CPSC-6705 Exploring the Technological Frontier: A Practical Approach to Multimedia (3.00 cr.)

Designed as a pragmatic, high technology-oriented approach to understanding and handling the coming age of knowledge. Treats new concepts and technologies of information-based systems in a broad manner where multi-dimensional learning is evoked through recent advances in knowledge transfer. The multimedia, hypertext/hypermedia-based mode of our approach is reinforced through hands-on exercises in our Pentium computer lab. Equivalent to CPSC-705. Prerequisite: take CPSC-2005.

CPSC-7700 Application Architecture (3.00 cr.)

Focuses on principles of application architecture through design patterns. Provides a study of generalized design patterns and generalized software solutions for design problems. Equivalent to CPSC-700. Prerequisites: take CPSC-6643, CPSC-6648.

CPSC-7702 Enterprise Application Architect and Integration (3.00 cr.)

Modern enterprises are supported by hundreds of disparate applications that work together to achieve common business goals. Each application faces its own problems, let alone to integrate those applications. This course discusses challenge for enterprise applications followed by addressing possible solutions. Equivalent to CPSC-702. Prerequisites: take CPSC-4342, CPSC-4345.

CPSC-7745 Database Development and Environments (3.00 cr.)

Examines practical design and implementation of database systems on fourth-generation, relational DBMS environments. Topics include conceptual design of database, logical and physical database design, functional dependencies and normal forms, nonprocedural and fourth-generation DBMS, SQL and the industry standard for Data Manipulation Language (DML), integrated and distributed DBMS, and LAN for PC-based databases. Students will design and implement an actual database using a relational DBMS such as FOCUS or ORACLE. Equivalent to CPSC-745. Prerequisite: take CPSC-4345.

CPSC-7760 Wireless Networking (3.00 cr.)

Explores fundamental concepts in wireless networking. Topics include wireless transmission, media access control, telecommunication systems, broadcast systems, wireless LAN, mobile network layer, mobile transport layer, and security issues in wireless networks. Equivalent to CPSC-760. Prerequisite: take CPSC-4342.

CPSC-7762 Mobile and Wireless Programming (3.00 cr.)

Explores fundamental concepts in mobile/wireless networking and programming. Topics include mobile operating system, mobile application architecture, wireless transmission, and techniques used to develop mobile applications. Mobile platforms such as Java MEA, Android, iPhone, and .NET Compact Framework will be used as programming environments. Extensive mobile applications will be developed. Equivalent to CPSC-762. Prerequisites: take CPSC-4342, CPSC-3148.

CPSC-8700 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in computer science under the supervision of the faculty. Equivalent to CPSC-870.

CPSC-8720 Internet Programming (3.00 cr.)

Covers techniques on the client and server sides for creation of web-based applications. This course provides the synthesis to apply client/server techniques, databases, and distributed computing knowledge to build web-based applications. Emphasis will be placed on programming skills along with introducing various development tools. Equivalent to CPSC-720. Prerequisites: take CPSC-4342, CPSC-4345.

CPSC-8735 Advanced Operating Systems (3.00 cr.)

Examines operating system design concepts such as system requirements, reliability, security, parallel processing, system structure, and process communication. Specialized topics in decentralized operating systems will be surveyed. Equivalent to CPSC-735. Prerequisite: take CPSC-4335.

CPSC-8742 Advanced Computer Networks (3.00 cr.)

A system-oriented view of computer networking is used in order to explore the designing principles of sound network design in this course. Providing an in-depth study of emerging technologies of data communication is the purpose of this course. The core material contains Internet-working, end-to-end protocol, congestion control, and high-speed networking. Open issues in those fields will be discussed. Equivalent to CPSC-742. Prerequisite: take CPSC-4342.

CPSC-8790 Special Topics: Computer Science (3.00 cr.)

Provides a forum for topics not presented in regularly scheduled courses. Topic may include languages and automata small scale computers, parallel distributed architectures, and database design. Equivalent to CPSC-790.

CPSC-8800 Internship (1.00-4.00 cr.)

Designed to provide graduate computer science majors with supervised experiences in applied settings. Equivalent to CPSC-880.

CPSC-8810 Formal Languages and Applications (3.00 cr.)

Presents highlights of the foundations of computer science. This course will introduce the relationships between formal languages and automata; focus on the regular grammar and finite state automata, context-free grammar, and push-down stack automata; provide basic principles of compilers and compiler design, lexical analysis, parsing techniques, syntax directed translation, symbol tables, storage administration, error detection, and code generation. Thus, this course will provide both the theoretical and practical foundation of modern computer science. Equivalent to CPSC-810. Prerequisites: take CPSC-3415, CPSC-4338.

CPSC-8812 Design of Compilers (3.00 cr.)

Introduces basic principles of compilers and compiler design, lexical analysis, finite state automata, context free grammars, parsing techniques, syntax directed translation, symbol tables, run time storage administration, error detection, optimization, data flow analysis, and code generation. A substantial programming project will be required. Equivalent to CPSC-812. Prerequisites: take CPSC-4255, CPSC-8810.

CPSC-8815 Natural Language Processing (3.00 cr.)

Presents a multidisciplinary approach to the understanding of human languages, their grammar, syntax, and semantics, and the automatic processing of natural languages by computer. The potential of automated text translation from one human language into another, and problems such as visual text display and speech analysis and automatic synthesis is discussed. Emphasis is placed on potential applications to computerized processing of verbal and written text. Information from linguistics, psychology, artificial intelligence, and cognitive science is presented. Computer science tools and techniques that are presently available to deal with natural language processing which will be discussed. Equivalent to CPSC-815. Prerequisite: take CPSC-6660.

CPSC-8820 Planning and Management of Software Projects (3.00 cr.)

Designed to expand on the principles of software engineering technologies and software management as cost-effective tools in software development. Specifically, methods of systems engineering, modular design of complex software, and application of knowledge engineering principles that include the design of natural-language interfaces will be discussed. Emphasis will be on design techniques, project planning, software integration, as well as maintenance and management of software. Equivalent to CPSC-820. Prerequisite: take CPSC-4190.

CPSC-8825 Expert Systems and Knowledge Engineering (3.00 cr.)

Presents a conceptual understanding of the principles of rule-based systems and practical development of mini-expert systems. The concepts of neural networks also will be discussed as they pertain to expert systems development. Equivalent to CPSC-825. Prerequisite: take CPSC-6660.

CPSC-8845 Advanced Database Concepts (3.00 cr.)

Provides students with an in-depth study of the sensitive issues on database design and development. Topics include: application development techniques using a common DBMS in the market, database design, data integrity and security, relational database theory, multi-user databases, and client/server architect. Equivalent to CPSC-845. Prerequisites: take MATH-3137, CPSC-4345.

CPSC-8900 Graduate Thesis/Project (1.00-6.00 cr.)

Provides the computer science student with the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in computer science. The written portion will follow thesis guidelines for graduate level work. Equivalent to CPSC-890.

CPSC-8985 Grad Seminar in Computer Science (3.00 cr.)

Examines current trends and issues in Computer Science. Guest speakers and invited experts will share their research results and perspectives on industry trends. Research methods and project management techniques will be discussed. Provides professional experience in software lifecycle development. Specific class activities include survey development, proposal presentation, project implementation, and public presentation of project findings and results. Equivalent to CPSC-885.

CPSC-8990 Thesis Presentation in Computer Science (1.00 cr.)

Students provide oral presentations of their theses in a format similar to that followed in the presentation of papers at professional meetings. Students will enroll during the final term of their research or the following term. Equivalent to CPSC-899.

CPSC-8999 Directed Scholarship: Masters in Computer Science (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must have received a grade of "CO" in a designated capstone course. Note: This course is variable (1-2) in credit hours, repeatable (not replaceable), and is P/NC credit option. Equivalent to CPSC-898.

Counseling

COUN-3300 My Career Workshop (1.00 cr.)

This course is designed to facilitate the student's personal social and academic adjustment to the learning community at Governors State while engage the student in the processes of career exploration, assessment, planning as well as employability. The purpose is to facilitate the student to succeed academically and career ready upon completion of his/her degree at GSU.

COUN-4470 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in counseling under the supervision of the faculty. Equivalent to COUN-470.

COUN-5515 Death and Dying (3.00 cr.)

Examines current attitudes toward death and dying. Explores ways in which the professional helps the patient and family deal with a terminal illness. Equivalent to COUN-515.

COUN-5518 Workshop on Depression (2.00 cr.)

Study of the causes and cures of depression from the humanities/holistic view of human nature. Specific attention to transactional analysis, the rededcision model. Equivalent to COUN-518.

COUN-5548 Alternate Approaches to Traditional Psychotherapy (3.00 cr.)

Introduces students to alternate therapeutic strategies such as body therapy, communication therapy, Gestalt therapy, neurolinguistic programming, and psychodrama. Equivalent to COUN-548.

COUN-6600 Professional Orientation and Ethical Standards for Counselors (3.00 cr.)

Provides an introduction to professional, ethical, legal, theoretical, and practical aspects of counseling. Students will examine the roles and responsibilities of counselors, professional organizations, and associations. Historical and social contexts along with emerging professional issues and directions are included. Equivalent to COUN-600.

COUN-6609 Issues in Counseling (1.00-3.00 cr.)

This course is designed to introduce students to topical social issues related to counseling. It is meant to expose students to critical issues, their possible solutions, and the most current thinking and research. Equivalent to COUN-609.

COUN-6610 Research and Assessment (3.00 cr.)

This course provides a basic introduction to psychometric issues related to assessment, evaluation and research in a multicultural society. Prerequisites: take STAT-4720, PSYC-4750.

COUN-6622 Applied Learning Theory for School Personnel (3.00 cr.)

Explores learning theories for school counselors and other school personnel. Focus is on the study and application of psychological principles, theories, and methodologies to relevant issues of teaching and learning for P-12 populations. Equivalent to COUN-622.

COUN-6630 Counseling Theories and Ethics (3.00 cr.)

Introduces students to the major theories in counseling and associated techniques. Summaries of applicable research are covered. Equivalent to COUN-630.

COUN-6638 Introduction to School Counseling (3.00 cr.)

Provides an overview of School Counseling. The developmental model of school counseling will be introduced along with state and national standards. Students will learn counselor roles in advocacy, prevention, personal/social growth, academic development, and career development. Various issues relevant to today's children and adolescents will be explored. Equivalent to COUN-638.

COUN-7620 Lifespan Developmental Issues (3.00 cr.)

Students will analyze and conceptualize human developmental themes from the perspective of various learning and personality theorists. The counseling process, interventions, and strategies will be addressed in relation to the topical issues presented in the class. Equivalent to COUN-620.

COUN-7633 Community Counseling and Professional Orientation (3.00 cr.)

Introduces students to professional counseling practices in community settings. Examines the community counseling model and its application. Examines professional counseling roles, functions, standards, and activities. Includes visits to agencies. Equivalent to COUN-633.

COUN-7720 Social and Cultural Foundations (3.00 cr.)

Study of the nature and needs of diverse groups in the context of societal changes and trends. Socioeconomic, multicultural, and subgroup changes and conflicts are considered. Social issues and trends in a multicultural and diverse society are examined. Equivalent to COUN-720.

COUN-7725 Family Systems: Theory and Practice (3.00 cr.)

Introduces students to the theory, skills, and major approaches of family counseling, emphasizing the role of family systems in the maintenance of problem behavior. The decision of whether or not family counseling is the treatment of choice and the implications for intake methods are considered. Students will apply the concepts learned to a study of their own family that describes the dynamics involved. Ethical and training considerations are discussed. Equivalent to COUN-725.

COUN-7730 Life Style and Career Development (3.00 cr.)

Examines career development theories; occupational and educational information sources and systems; career and leisure counseling guidance and education; life style and career decision-making; and career development program planning, resources, and evaluation. Equivalent to COUN-730.

COUN-7810 Beginning Counseling and Human Relations Skills (3.00 cr.)

Provides students with experience in human relations laboratory, focusing on basic communication skills and the development of beginning counseling skills. Equivalent to COUN-810. Prerequisite: take COUN-6630.

COUN-7847 Group Dynamics (3.00 cr.)

Application of basic knowledge of the roles, functions, and dynamics among group leaders and group participants; covers group process theory and the research pertaining to group process; students analyze the interaction within a group. Equivalent to COUN-847. Prerequisite: take COUN-6600.

COUN-7851 Consultation and School Staff Development (3.00 cr.)

Examines theories, functions, and skills required of consultants in schools and other settings. Students will use consultation skills with client. Equivalent to COUN-851. Prerequisite: take COUN-6630.

COUN-7853 Parent Education: Prevention and Intervention (3.00 cr.)

Introduces students to dynamics of family interaction and methods of prevention and intervention in family problems. Students will conduct two family counseling sessions, analyze the family interaction, and propose remedial intervention. Equivalent to COUN-853. Prerequisite: take COUN-6630.

COUN-7855 Assessment and Treatment Planning (3.00 cr.)

Covers interviewing and intake skills, including diagnostic assessment, psychosocial history, case notes, case summary, treatment format and planning, and evaluation of treatment effectiveness. Students are required to work with actual client(s). Equivalent to COUN-855. Prerequisite: take PSYC-6110.

COUN-8811 Interventions with Children and Adolescents (3.00 cr.)

Introduces students to the basic skills and techniques utilized in working with children and adolescents in community mental health settings and family practice. Students will interview a minimum of two cases. Equivalent to COUN-811. Prerequisite: take COUN-7725.

COUN-8825 Advanced Family Systems Theory (3.00 cr.)

Provides an in-depth study of major family counseling approaches. Examines systems concepts and theory as they relate to the family and larger sociocultural contexts, and explores how values at all levels (i.e., individual, family, professional, cultural, societal) affect the therapeutic system. Emphasizes the evaluation of modern and postmodern perspectives and social constructionism. Equivalent to COUN-825. Prerequisite: take COUN-7725.

COUN-8826 Research Literature in Counseling and Psychotherapy (3.00 cr.)

Provides counselors and psychotherapists with methods and criteria to locate and evaluate research literature on counseling and psychotherapy. Emphasizes examination and understanding of research questions and findings. Equivalent to COUN-826. Prerequisites: take PSYC-3470, PSYC-4750, COUN-6630.

COUN-8837 Management of Counseling Programs (3.00 cr.)

Provides an overview of methods used in the management of counseling programs in schools, agencies, or businesses. Focuses on unique management skills needed by counseling practitioners. Equivalent to COUN-837.

COUN-8838 Counseling Employees in the Workplace (3.00 cr.)

Introduction to the concept of employee assistance programs. Deals with design, implementation, and evaluation of counseling programs in business and industry. Equivalent to COUN-838.

COUN-8840 Advanced Techniques: (3.00 cr.)

Intensive study of specific advanced techniques or topics in the field of psychology and counseling. Allows students to work intensively in a specialized study area not normally available in the general curriculum. Topic dependent upon faculty expertise and student need. Equivalent to COUN-840. Prerequisite: take COUN-8844 or COUN-8845.

COUN-8842 Practicum 1: Individual and Vocational Counseling (3.00 cr.)

Beginning application of theory and practice in individual and vocational counseling and therapy with adults. Equivalent to COUN-842. Prerequisites: take PSYC-6610, COUN-7730.

COUN-8844 Practicum: School Counseling (K-12) (3.00 cr.)

This course focuses on the development and refinement of counseling skills required for working with children, with particular emphasis on career, academic, and personal/social development. Students will work in a K-12 school setting; attend individual supervision, and group supervision. The minimum requirement for the practicum course is one hundred (100) hours in a K-12 school setting. Equivalent to COUN-844. Prerequisite: take COUN-6638.

COUN-8845 Practicum 2: Advanced Individual and Vocational Counseling (3.00 cr.)

Advanced application of theory and practice in individual and vocational counseling and therapy with adults. Equivalent to COUN-845. Prerequisite: take COUN-8842.

COUN-8846 Reality Therapy (3.00 cr.)

Applies techniques and skills of reality therapy in counseling sessions with adults. Studies concepts and orientations of Glasser, Harrington, and Haley toward mental health, including work with families. Equivalent to COUN-846.

COUN-8848 Crisis Intervention Trauma (3.00 cr.)

Introduces students to an overview of crisis intervention, crisis intervention models, and trauma counseling for individuals, groups, organizations and communities. Counseling strategies and techniques for dealing with individual, group and organizational crises in a variety of settings will be explored. Types of crises include suicide, domestic violence, sexual assault/rape, school and community violence, military trauma, terrorism and natural disaster. Equivalent to COUN-848. Prerequisite: take COUN-7633.

COUN-8849 Psychopharmacology and Substance Abuse (3.00 cr.)

Provides explanation of the use of psychotropic and other medication in the treatment of mental health disorders and substance abuse. This course will introduce students to clinical models involving substance abuse assessment and treatment as well as mental health assessment and treatment with respect to psychotropic medication, anxiety medication and alternate forms of healing. Equivalent to COUN-849. Prerequisite: take COUN-7633.

COUN-8852 College Career Coach Academy (3.00 cr.)

This course focuses on P-20 student development of college and career readiness. Students will become acquainted with knowledge, skills and techniques needed to assist P-20 students during their school years and during their transition from school to college and work. Equivalent to COUN-852. Prerequisite: take COUN-6638.

COUN-8854 Advanced Individual Therapy Techniques: Child (3.00 cr.)

Covers advanced skills in using verbal and nonverbal techniques in individual therapy with children. Includes study of relevant theory, application of treatment techniques, and evaluation of their effectiveness. Equivalent to COUN-854. Prerequisite: take COUN-8844.

COUN-8856 Practicum in Group Counseling: Adult (3.00 cr.)

Study and practice of basic interviewing skills and treatment techniques in group counseling or group therapy with adults. Equivalent to COUN-856. Prerequisite: take COUN-8842.

COUN-8857 Behavior Therapy (3.00 cr.)

Advanced study and application of behavioral therapy techniques with adults and children. Equivalent to COUN-857. Prerequisite: take COUN-8844 or COUN-8845.

COUN-8858 Development of School Counseling Programs (3.00 cr.)

Study of rationale and program for guidance services. Special attention to analyzing, evaluating, and integrating administrative theory. Equivalent to COUN-858. Prerequisite: take COUN-6638.

COUN-8859 Family and Couples Counseling (3.00 cr.)

Introduces applied practice of family and couples counseling approaches, concepts, and techniques. Covers modern and postmodern theories and trains students to begin to apply them in counseling families and couples. Emphasizes both live and team supervision. Equivalent to COUN-859. Prerequisites: take COUN-7725, COUN-8811, COUN-8842.

COUN-8860 Applied Systems Theory (3.00 cr.)

Applies practice of family and couples counseling approaches, concepts and techniques. Offers an in-depth study of theories and topics related to counseling families and couples, with special emphasis on advanced skills, team, and live supervision. Equivalent to COUN-860. Prerequisite: take COUN-8859.

COUN-8861 Parent Study Group Leadership (3.00 cr.)

Student initiates, develops, conducts, and maintains a successful ten-week parent study group. Special emphasis on training parents to identify problems in the home and providing techniques to deal with them. Equivalent to COUN-861. Prerequisites: take COUN-6638, COUN-7853.

COUN-8862 College Admission Counseling (3.00 cr.)

This course provides supervised field work experiences preparing students to participate in the college admissions process for students in secondary schools or adult students who wish to return to college. A minimum of 100 on site hours are required. Practicum placement sites can be a high school, a community college, or university. Prerequisites: take COUN-7730, COUN-7620, COUN-8852.

COUN-8868 Counseling Internship I: School Counseling (3.00 cr.)

The internship takes place in a P-20 school setting. The intern will provide selected services in each of the four Delivery Systems delineated in the ASCA Developmental Guidance Model. A minimum of 300 on-site hours is required which should extend over the period of one full trimester. (A minimum of 120 of the 300 must be spent in direct services to clients (students). Direct service is generally considered to consist of activities identified in the delivery systems of individual student planning and responsive services). Equivalent to COUN-868.

COUN-8869 Counseling Internship II: School Counseling (3.00 cr.)

The internship takes place in a P-20 school setting. The intern will provide selected services in each of the four Delivery Systems delineated in the ASCA Developmental Guidance Model. A minimum of 300 on-site Hours is required which should extend over the period of one full trimester. (A minimum of 120 of the 300 must be spent in direct services to clients (students). Direct service is generally considered to consist of activities identified in the delivery systems of individual student planning and responsive services). Equivalent to COUN-869.

COUN-8870 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in counseling under supervision of faculty. Equivalent to COUN-870.

COUN-8871 Counseling Internship I: Clinical Mental Health Counseling (3.00 cr.)

Student is placed in an agency setting and expected to perform a variety of agency and counseling related activities for a minimum of 600 hours, (in combination with COUN-8872) including a minimum of 240 hours of direct client contact. Equivalent to COUN-871.

COUN-8872 Counseling Internship II: Clinical Mental Health Counseling (3.00 cr.)

Student is placed in an agency setting and expected to perform a variety of agency and counseling related activities. This is a continuation of Internship I. Equivalent to COUN-872.

COUN-8881 Counseling Internship I: Marriage and Family Counseling (3.00 cr.)

Student is placed in an agency setting and expected to perform a variety of agency and counseling related activities for a minimum of 600 hours (in combination with COUN-8882), including a minimum of 240 hours of direct client contact. Equivalent to COUN-881. Prerequisites: take COUN-7725, COUN-8825, COUN-8811, COUN-8859.

COUN-8882 Counseling Internship II: Marriage and Family Counseling (3.00 cr.)

Student is placed in an agency setting and expected to perform a variety of agency and counseling related activities. This is a continuation of Internship I. Equivalent to COUN-882.

COUN-9301 Professional Identity in Counselor Education and Supervision (3.00 cr.)

Presents information related to the role of being a counselor educator and supervisor. Includes professional organizations, ethics, and legal responsibilities related to the field of counseling. Stresses the importance of research, scholarship, leadership, and advocacy as they relate to the role of counselor educator. Equivalent to COUN-901. Prerequisite: take COUN-6600.

COUN-9320 Advanced Issues in Diversity (3.00 cr.)

Reviews literature and research related to multicultural issues and clinical work, supervision, teaching, research, advocacy, and the field of professional counseling. Discusses topics related to race, ethnicity, gender, sexual orientation, religion, physical abilities, and other issues of diversity. Applies multicultural competencies for counselors to various contexts facing Counselor Educators and Supervisors. Equivalent to COUN-920. Prerequisite: take COUN-7720.

COUN-9330 Advanced Counseling Theory (3.00 cr.)

Advanced analysis and applications of major counseling theories, their strengths and weaknesses, theoretical basis for efficacy, applicability to diverse populations, and ethical considerations. Equivalent to COUN-930. Prerequisites: take COUN-6600, COUN-6630, COUN-7810.

COUN-9360 Advanced Counseling Skills Practicum I (3.00 cr.)

Students will be placed in an agency or school to work with clientele in a role related to the duties of a professional counselor. Equivalent to COUN-960. Prerequisite: take COUN-8845.

COUN-9361 Advanced Counseling Skills Practicum II (3.00 cr.)

Second supervised placement in an agency or school working with clientele in a role related to the duties of a professional counselor. Equivalent to COUN-961. Prerequisite: take COUN-9360.

COUN-9365 Counseling and Clinical Supervision (3.00 cr.)

Describes the purpose of clinical supervision, theoretical frameworks and models of supervision, roles and relationships related to supervision, and the ethical considerations of supervision. Students will be required to provide clinical supervision to master's level students. Equivalent to COUN-965. Prerequisite: take COUN-9360.

COUN-9990 Internship I (3.00 cr.)

Supervised experiences in clinical practice, supervision, research, and/or teaching. The internship includes most of the activities of a regularly employed professional in the setting. The 600 hours can be allocated at the discretion of the faculty advisor and student, based on experience, training, and career objectives.

COUN-9991 Internship II (3.00 cr.)

Supervised experiences in clinical practice, supervision, research, and/or teaching. The internship includes most of the activities of a regularly employed professional in the setting. The 600 hours can be allocated at the discretion of the faculty advisor and student, based on experience, training, and career objectives. Prerequisite: take COUN-9990.

COUN-9999 Capstone Research Project (3.00 cr.)

Student is to work on capstone project proposal, data collection, and/or writing of the final capstone project. Note: See Program Handbook for procedures Equivalent to COUN-999. Prerequisites: take COUN-9990, COUN-9991.

Criminal Justice

CJUS-2100 Criminal Justice Organization and Process (3.00 cr.)

Studies current structures and procedures of American criminal justice. Presents various comprehensive theories useful for analysis and understanding of the justice subsystems. Equivalent to CJUS-310.

CJUS-2200 Correctional Process (3.00 cr.)

Examines research on the social/psychological effects of confinement. Studies the prison as a social system with its own norms and peculiarities. Critically analyzes similarities among prisons and other subsystems such as mental hospitals. Equivalent to CJUS-320.

CJUS-2300 Juvenile Justice (3.00 cr.)

Explores the development of the juvenile court and the system of juvenile justice in the United States. Studies contemporary issues in juvenile justice and approaches to prevention, control, and treatment of delinquency. Equivalent to CJUS-330.

CJUS-2400 Law Enforcement and the Community (3.00 cr.)

Topics and issues in the law enforcement process, police administration, police-community relations in the context of the multiethnic and multi-racial urban communities. Equivalent to CJUS-355.

CJUS-2500 Criminal Law and Procedure (3.00 cr.)

Examines the criminal procedure and prosecution of cases in the criminal courts for misdemeanor and felony charges. Analyzes issues related to criminal prosecution Equivalent to CJUS-360.

CJUS-3090 Junior Seminar in Criminal Justice (1.00 cr.)

This course introduces and orients new criminal justice majors to undergraduate academic work in the field of criminal justice. This course explains the Criminal Justice Program policies, University policies and resources, the academic discipline of Criminal Justice, and potential career opportunities in the field. This course also provides an orientation to on-line learning in the Criminal Justice Program. Note: This course should be taken within the first 2 terms of the criminal justice coursework. Equivalent to CJUS-390.

CJUS-3100 Foundations of Social Justice (3.00 cr.)

Encompasses a review of the structure and methods employed by the American justice system. Examines a number of contemporary and controversial social issues in the context of criminal justice agency operations and processes. Assesses current justice system practices and procedures from the standpoint of ensuring equal and fair treatment under the law for all. Equivalent to CJUS-410.

CJUS-3200 Correctional Policy and Practice (3.00 cr.)

Analyzes current approaches used in federal, state, and local correctional and related agencies. Examines discrepancies between new theories implemented by criminal justice decision-makers and the actual outcome of theoretical applications. Equivalent to CJUS-420.

CJUS-3300 Critical Issues in Juvenile Justice (3.00 cr.)

An examination of the critical issues and special problems challenging the contemporary juvenile justice system. The topics will include an analysis of youth violence; gang violence; school crime; teenage pregnancy; juvenile victimization; child poverty, abuse, neglect, and homelessness; the child welfare system; and teen substance abuse. Factors in American society that generate or influence delinquency and dependency will also be explored. Equivalent to CJUS-430.

CJUS-3530 Computer Applications in Criminal Justice (3.00 cr.)

A review of the available resources and selected computer software applications for criminal justice professionals. Equivalent to CJUS-453. Prerequisites: take CJUS-3100, CPSC-2005, MIS-2101.

CJUS-3550 Computer Security, Law, and Justice (3.00 cr.)

This course introduces the major components of the criminal justice system—the community, policy makers, police, prosecution, courts, and corrections. Includes study of the justice process, the actors, and issues involved in effectively administering a system focused clearly on the management of computer security, law, and justice. Prerequisite Equivalent to CJUS-455. Prerequisite: take CJUS-3100.

CJUS-3600 Judicial Process and Constitutional Issues in Criminal Justice (3.00 cr.)

Includes a survey of jurisdiction, organization, policies, and procedures of courts and the judicial system. Analyzes issues related to the administration of criminal justice from arrest to incarceration or release. Equivalent to CJUS-460.

CJUS-4120 Policing and the Community (3.00 cr.)

Reviews the historical development of policing in America and examines community-based and collaborative approaches to policing, crime prevention, and public safety problem-solving. Equivalent to CJUS-412. Prerequisite: take CJUS-3100.

CJUS-4130 History of Corrections (3.00 cr.)

Reviews the historical development of the theory and functions of corrections and punishment, including both institutional and community corrections, tracing the international roots of American correctional practice as well as the social, political, and cultural forces that have influenced the development and emergence of contemporary corrections in America. Equivalent to CJUS-413. Prerequisite: take CJUS-3100.

CJUS-4140 Restorative Justice (3.00 cr.)

Surveys restorative justice goals and practices. Engages in critical analysis of justice philosophies, including retributive, rehabilitative and restorative philosophies and examine the impact such philosophies have on local, state, and federal policies and programs. Equivalent to CJUS-414. Prerequisite: take CJUS-3600.

CJUS-4210 Alternatives to Institutional Corrections (3.00 cr.)

Analyzes current alternative correctional approaches used in today's contemporary society in dealing with offenders. Examines theoretical alternative correctional approaches implemented by criminal justice decision-makers and their practical outcomes. Equivalent to CJUS-421. Prerequisite: take CJUS-3100.

CJUS-4220 Institutional Corrections (3.00 cr.)

Explores the contemporary corrections systems in the U.S., including corrections history, law, operations, facilities, and experiences. Examines punishment, prisoner profiles, parole, and community reentry. Equivalent to CJUS-422. Prerequisite: take CJUS-3100.

CJUS-4230 Health Issues in the Corrections System (3.00 cr.)

Covers the nature and scope of health and mental health issues in the corrections systems. Explores contemporary approaches to these issues. Equivalent to CJUS-423. Prerequisite: take CJUS-3200.

CJUS-4350 Victims and the Justice System (3.00 cr.)

An examination of the critical issues and special problems challenging the contemporary juvenile justice system. The topics will include an analysis of youth violence; gang violence; school crime; teenage pregnancy; juvenile victimization; child poverty, abuse, neglect, and homelessness; the child welfare system; and teen substance abuse. Factors in American society that generate or influence delinquency and dependency will also be explored. Equivalent to CJUS-435. Prerequisite: take CJUS-3100.

CJUS-4360 Mediation and Conferencing (3.00 cr.)

Examines advanced topics in restorative mediation and conferencing practices. Equivalent to CJUS-436. Prerequisite: take CJUS-4140. Corequisite course: CJUS-4361.

CJUS-4361 Mediation and Conferencing Practicum (1.00 cr.)

Supervised practical experience in community-based programs or court-sponsored programs that incorporate restorative justice principles. Equivalent to CJUS-437. Prerequisite: take CJUS-4140. Corequisite course: CJUS-4360.

CJUS-4380 International Peace Initiatives (3.00 cr.)

Critically examines global peacebuilding initiatives, including strategies and practices based upon restorative justice. Equivalent to CJUS-438. Prerequisite: take CJUS-4140.

CJUS-4400 Exploring Ethics in the Justice System (3.00 cr.)

Introduces ethical theories and their relevance to the criminal and juvenile justice systems, including the system of laws, enforcement, courts, corrections, probation, and parole. Equivalent to CJUS-440. Prerequisite: take CJUS-3100.

CJUS-4411 Theories of Crime and Deviance (3.00 cr.)

Reviews the historical and contemporary theories on crime and deviance. Analyzes concepts and patterns of crime and deviant behavior and society's response to them. Examines the law, offenders, victims, and forms of crime and deviance in the criminal justice systems. Formulates an integrated perspective that takes into account societal pressures and research about crime, rehabilitation, and recidivism. Equivalent to CJUS-411. Prerequisite: take CJUS-3100.

CJUS-4415 Justice System Research Design (3.00 cr.)

Introduces the student to the analysis, research design, problem-solving approaches, conceptualization, and implementation of various methodologies in the field of criminal justice. Equivalent to CJUS-415. Prerequisite: take CJUS-3100.

CJUS-4500 Race, Gender, and the Justice System (3.00 cr.)

Covers patterns of criminal behavior by race/ethnicity, gender, class, and age, as well as the justice system's response, with special emphasis on the correctional aspects. Explores the relationship between women and minorities in the paths of crime and justice. Equivalent to CJUS-450.

CJUS-4520 Substance Abuse in the Criminal Justice System (3.00 cr.)

Offered in an Internet format, with an agency site-visit experience. This course will introduce the student to the issue of substance abuse treatment within the context of the criminal justice system. The course examines the points along the criminal justice system continuum where substance abuse intervention programming exist. Perspectives, policies, and goals of the criminal justice and treatment systems will be presented. Equivalent to CJUS-520. Prerequisite: take CJUS-3100.

CJUS-4545 White Collar Crime (3.00 cr.)

An examination of the nature and extent of white collar crime to include the concepts, trends, theoretical explanations, methods, and mechanics of social control used by society and the criminal justice systems in this context. Equivalent to CJUS-445. Prerequisite: take CJUS-4411.

CJUS-4565 Comparative International Criminal Justice Systems (3.00 cr.)

Examines the criminal justice systems of selected western and non-western cultures from a comparative international perspective. Surveys the organizational, administrative, and philosophical principles of criminal justice systems from selected countries around the world. Equivalent to CJUS-465. Prerequisites: take CJUS-3100, CJUS-4411.

CJUS-4610 Current Topics in Computer Crime Investigation (3.00 cr.)

An introduction to the current topics in computer crime and the techniques for investigation. This course will serve as the first in a sequence for a minor in the area of computer crime investigation. Equivalent to CJUS-451. Prerequisites: take CJUS-3100, CJUS-4415.

CJUS-4616 Quantitative Research Applications in Law Enforcement (3.00 cr.)

Reviews the applied research design and implementation process. Introduces quantitative analysis applications in law enforcement including crime analysis, pattern recognition, hypothesis testing, strategic assessment of problem-solving initiatives, and trend analysis. Equivalent to CJUS-516. Prerequisites: take CJUS-3100, CJUS-4415.

CJUS-4620 Computer Forensics (3.00 cr.)

A technology intensive course focused on the collection, evaluation, preservation, and preparation of digital evidence typically presented for criminal prosecution. Makes intensive use of the forensic and behavioral science practices in the investigation of computer-related crime. Equivalent to CJUS-452. Prerequisites: take CJUS-3100, CJUS-4415, CJUS-4610.

CJUS-4640 Computer Crime Prosecution (3.00 cr.)

This technology-intensive course focuses on the Constitutional and legal concerns having to do with computer-related crime investigation and prosecution. Equivalent to CJUS-454. Prerequisites: take CJUS-3100, CJUS-4415, CJUS-4610.

CJUS-4660 International Computer Crime Issues (3.00 cr.)

A technology intensive course. The focus is on concerns related to multi-jurisdiction and international issues involved in computer-related crime investigations. Addresses concerns related to interaction between government officials and corporate information security specialists. Equivalent to CJUS-456. Prerequisites: take CJUS-3100, CJUS-4565.

CJUS-4700 Independent Study (3.00 cr.)

Independent study is intended to provide better students the opportunity to study a topic of their choice in criminal justice under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within criminal justice and an instructor to sponsor the work. Equivalent to CJUS-470.

CJUS-4750 Justice Systems Planning (3.00 cr.)

Explores the planning process and introduces students to the examination of various operational and administrative uses to which criminal justice planning can be applied. Equivalent to CJUS-475. Prerequisite: take CJUS-3100.

CJUS-4770 Management of Criminal Justice Organizations (3.00 cr.)

Examines core concepts and management functions in criminal justice organizations such as organizational structures, environments, conflict, and decision-making processes, with a special focus on organizational culture. Equivalent to CJUS-477. Prerequisite: take CJUS-3100.

CJUS-4800 Internship (3.00 cr.)

Designed to combine individual career counseling and work outside of the classroom in combination with institutional learning settings. Equivalent to CJUS-480.

CJUS-4990 Senior Seminar in Criminal Justice (2.00 cr.)

This course involves a writing intensive assessment of the concepts, issues, methodologies, policies and practices of the criminal and juvenile justice systems, subsystems, and processes. This course also provides an opportunity to explore justice system career alternatives and develop job search and readiness skills. Equivalent to CJUS-490. Prerequisites: take CJUS-3090, CJUS-3100, CJUS-4411, CJUS-4415.

CJUS-5000 Special Topics in Criminal Justice (3.00 cr.)

In-depth analysis of contemporary justice-related issues and topics. This course will provide the student with a general understanding how the Forensic process works and be introduced to various disciplines and methodologies of this popular field. This course will incorporate both lecture and lab and will focus on the process from the crime scene to the lab and finally to the courtroom. Prerequisite: take CJUS-3100.

CJUS-5300 Digital Forensics (3.00 cr.)

Provides concepts and theory of file systems and apply them to digital investigations from real cases using analysis tools. Discusses processes and methodologies that an administrator or incident investigator needs to take in order to collect and analyze digital evidence. Topics include data acquisition, file system analysis, incident response methodology, evidence analysis, and incident response tools. Equivalent to CJUS-530. Prerequisites: take CPSC-4535, CPSC-4570.

CJUS-5540 Contemporary Issues in Digital Forensics (3.00 cr.)

A review of contemporary issues concerning the impact of digital forensics on the criminal justice system, and on criminal justice system professionals. Explores current and emerging legal and ethical issues impacting the digital forensics field, research and development in the digital forensics field, and human resources issues pertaining to the impact of technology on law enforcement and prosecution. Equivalent to CJUS-554. Prerequisite: take CJUS-5300.

CJUS-6010 Criminal Justice Master's Seminar (1.00 cr.)

A 1-credit hour course reviewing the essentials of writing graduate-level papers, conducting graduate-level research, and planning for successful completion of the Criminal Justice MA Program. Equivalent to CJUS-601.

CJUS-6130 Gangs, Guns, and Drugs (3.00 cr.)

Illustrates contemporary approaches to understanding and preventing gangs and criminal behaviors associated with gang involvement. Equivalent to CJUS-613.

CJUS-6150 Juvenile Delinquency (3.00 cr.)

Emphasizes the history of juvenile delinquency and juvenile justice in America, with a special emphasis on research and analysis regarding competency, brain development, and environmental factors affecting youth behavior. Equivalent to CJUS-615.

CJUS-6510 Contemporary Issues in Criminal Law (3.00 cr.)

Explores recent and current legal and judicial debates and issues surrounding the criminal law, criminal codes, and administrative law: includes debates and mock trials. Equivalent to CJUS-651. Prerequisite: take CJUS-3600.

CJUS-7020 Leadership Theory (1.00 cr.)

Focuses on understanding contemporary theories of leadership, and applying leadership theories and concepts in the context of criminal justice, juvenile justice, and public safety environments. Equivalent to CJUS-702. Prerequisite: take CJUS-6010.

CJUS-7030 Assessing Leadership (1.00 cr.)

Guides a self-assessment of leadership strengths and areas needing improvement, to aid in the development of leadership skills. Equivalent to CJUS-703. Prerequisite: take CJUS-7020.

CJUS-7040 Building Leadership (1.00 cr.)

Develops leadership strengths, such as communication skills, problem-solving, team-building, and decision making in the justice system. Equivalent to CJUS-704. Prerequisite: take CJUS-6010.

CJUS-7110 Inductive Theory Building (3.00 cr.)

A 3-credit course that reviews qualitative approaches to theory development; engages students in the development of new theories regarding criminal behavior, deviant behavior, and behavior in criminal justice organizations. Equivalent to CJUS-711. Prerequisite: take CJUS-4415.

CJUS-7210 Evaluation Research and Policy Analysis (3.00 cr.)

Focuses on program evaluation and policy analysis; students will engage in real-life evaluation project with a local justice agency. Equivalent to CJUS-721. Prerequisite: take CJUS-4415.

CJUS-7220 Theory And Crime Prevention (3.00 cr.)

Looks at new, practical approaches to crime prevention based on theory; examines such approaches as deterrence, crime prevention through environmental design, therapeutic jurisprudence, and strategic approaches to crime in urban areas, and more. Equivalent to CJUS-722. Prerequisite: take CJUS-4411.

CJUS-7230 Special Topics in Crime Policy: The Death Penalty in America (3.00 cr.)

This course critically examines the controversial issue of capital punishment in America, and will cover such issues as historical and international perspectives, the death penalty and the Supreme Court, methods of execution, deterrence, costs, miscarriages of justice, religious perspectives, and public opinion. This course will also cover the administration of justice in relation to death penalty cases, and will include research and statistical summaries on several key topics. This will be a participatory course, with several presenters who have experience in death penalty matters, and with required student presentations. This course will draw upon distinguished guest lecturers in the field as well as utilize two distinguished university professors to conduct the course. Equivalent to CJUS-723. Prerequisite: take CJUS-3100.

CJUS-7240 Crime Problem-Solving Strategies (3.00 cr.)

Explores key innovations in crime problem solving over the past several decades in such areas as: drugs, guns, gangs, violent crimes, white collar crime, and terrorism. Equivalent to CJUS-724. Prerequisite: take CJUS-4120.

CJUS-7430 Terrorism and the Justice System (3.00 cr.)

Examines the criminal justice system in the post-911 era, covering terrorism, intelligence and surveillance systems, the rise of homeland security, and how these developments have changed the administration of justice in America. Equivalent to CJUS-743.

CJUS-8100 Theories of Crime and Deviance (3.00 cr.)

Focuses on the study of criminal behavior as it relates to several varieties of crime (violent crime, property crime, white collar crime, corporate crime): emphasizes the evolution of the understanding of crime social construction of crime and deviance. Equivalent to CJUS-810.

CJUS-8170 Social Location and Prejudice in the Justice System (3.00 cr.)

Examines evidence regarding the intersections and interactions of race, gender, and class in the administration of criminal and juvenile justice in America, as well as recent efforts to re-analyze crime and crime control policy. Equivalent to CJUS-817. Prerequisite: take CJUS-4500.

CJUS-8200 Research Applications (3.00 cr.)

Designed to teach master's students to conduct original research and secondary analysis independently; covers research design and methods, quantitative applications (hypothesis testing, descriptive, and inferential statistics), and qualitative applications, (participant observation and case studies). Equivalent to CJUS-820. Prerequisite: take CJUS-4415.

CJUS-8210 Justice System Reform and Change (3.00 cr.)

Examines social policy and organization change from a global perspective, and reform theories and processes in such areas as: juvenile justice reform, corrections reform, police reform, death penalty reform, and the changing justice system labor force. Equivalent to CJUS-821. Prerequisite: take CJUS-6010.

CJUS-8220 Community Restorative Justice (3.00 cr.)

Examines the history of restorative justice as well as current applications of restorative justice in the U.S. and around the world. Equivalent to CJUS-822. Prerequisite: take CJUS-4140 or CJUS-4380.

CJUS-8280 Independent Research (1.00-3.00 cr.)

Provides the student with an opportunity to identify a focused area of research and inquiry, collect secondary or original data, and analyze the data under the guidance of a program faculty member. Equivalent to CJUS-828. Prerequisite: take CJUS-8200.

CJUS-8300 Criminal Justice System Organization Finances and Administration (3.00 cr.)

Covers project and organizational budgeting, planning and forecasting, needs assessment, human resource management, and organizational evaluation. Equivalent to CJUS-830. Prerequisite: take CJUS-4140.

CJUS-8370 Special Topics in Organization Management (3.00 cr.)

Experts from the criminal and juvenile justice fields, covering such topics as proposal writing, recruiting for diversity, managing the multi-cultural agency, planning for technological change, and managing the "learning organization." Equivalent to CJUS-837. Prerequisite: take CJUS-8300.

CJUS-8400 The Justice System and the Community (3.00 cr.)

Focusing on collaborate strategies and approaches to solving crime and public safety problems, crime prevention, crime problem-solving, restorative justice, and therapeutic jurisprudence (drug courts, mental health courts, best practice models). Equivalent to CJUS-840. Prerequisite: take CJUS-4140.

CJUS-8700 Graduate Research (3.00 cr.)

A course open for students pursuing the thesis option focusing on individual reading and research in Criminal Justice under the supervision of a graduate faculty member in Criminal Justice. Equivalent to CJUS-870. Prerequisite: take CJUS-8200.

CJUS-8800 Justice System Internship (1.00-3.00 cr.)

The internship course can be taken from one to three credit hours and is designed to provide the graduate student with an opportunity to synthesize theory and practice. Equivalent to CJUS-880.

CJUS-8880 Problem Solving Practicum (6.00 cr.)

Students must complete an original problem-solving practicum, working with a committee of three faculty members (the practicum director must be a CJUS faculty member). The practicum involves an issue or problem in the community or workplace, the student develops a plan to resolve or reduce the problem, and prepares a practicum report explaining the development, implementation, and outcomes of the project. Equivalent to CJUS-888.

CJUS-8891 Criminal Justice Directed Reading (3.00 cr.)

Directed reading are selected from the following areas: Understanding Crime and Deviance; Policy and Crime; Administration, Planning, and Systems Change Management; and Digital Forensics and Computer Security (one different area may be selected with approval from the CJUS MA Program Coordinator). This course must be taken twice, each time with a different supervising faculty member. Equivalent to CJUS-889.

CJUS-8990 Graduate Thesis (3.00 cr.)

Provides a forum for in-depth analysis of the selected topics of master's degree candidates. Hypothesis formation, operational procedures, and the foundation of each student's thesis/project will be publically presented and discussed. Equivalent to CJUS-890.

Dance

DNCE-3100 World Dance (3.00 cr.)

Exploration of dance traditions from around the globe through beginning level recreational dances from various regions, including Europe, Africa, Asia, and North and South America. Cultural values, religious beliefs, and social systems are examined in the context of the dances. Equivalent to DNCE-390.

Economics

ECON-2301 Principles of Microeconomics (3.00 cr.)

Studies price formation, demand, and production decisions. Examines the individual and interrelated behavior of consumers, firms, and industries. Equivalent to ECON-301. Prerequisite: take MATH-1423.

ECON-2302 Principles of Macroeconomics (3.00 cr.)

Offered in both lecture and televised format. Studies the economy as a whole, dealing with economic data, behavior, and theory at the aggregate level of the economy. Examines income, output, employment, prices, and other variables in terms of their measurement, determination, and policy implication. Equivalent to ECON-302. Prerequisite: take MATH-1423.

ECON-3301 Intermediate Microeconomics (3.00 cr.)

Examines rational decision-making behavior of consumers and firms, together with price and output determination in various market structures. Prerequisites: take ECON-2301, ECON-2302, MATH-2281.

ECON-3302 Intermediate Macroeconomics (3.00 cr.)

Deals with the aggregate level of economic activity. Analyzes the methodology of national income accounts, development of goods, money, and labor markets, and the impact and effect of policy instruments. Uses models to develop the interdependence of markets in the determination of the aggregate level of economic activity. Equivalent to ECON-410. Prerequisites: take ECON-2301, ECON-2302.

ECON-3311 Consumer Economics (3.00 cr.)

Study of the changing role of consumers, the consumption of goods and services, and the alternatives open to the consumer in the economic environment. Equivalent to ECON-310. Prerequisites: take ECON-2301, ECON-2302.

ECON-3404 Managerial Economics: The Economics of the Firm (3.00 cr.)

Deals with analysis and theoretical constructs of microeconomics applied to managerial decision-making. Emphasizes consumer demand, production and cost analysis, business behavior, market performance, and growth equilibrium. Equivalent to ECON-420. Prerequisites: take ECON-2301, ECON-2302, MATH-2281, STAT-3700.

ECON-3501 Money and Banking (3.00 cr.)

Studies the U.S. monetary system in the areas of money, institutions, and policy. Concentrates on analysis of money and its functions, the mechanics of the commercial banking system and its determination of the money supply, the Federal Reserve system's functions and policy instruments, the impact and effectiveness of monetary policy on the public, commercial banks, and the treasury, and its overall impact on the economy. Equivalent to ECON-350. Prerequisites: take ECON-2301, ECON-2302.

ECON-3502 Economic Development (3.00 cr.)

Examines the process of economic growth with reference to developing countries. Explores capital formation, resource allocation, relation to the global economy, economic planning and institutional factors with case studies. Prerequisites: take ECON-2301, ECON-2302, MATH-2281.

ECON-3503 Labor Economics (3.00 cr.)

Provides an analytical framework for studying the structure of labor markets and conducting research on market structures, industries and international issues to influence public policy. The course presents a comprehensive and understandable study of employers and employees in competitive and imperfectly competitive labor markets. Prerequisites: take ECON-2301, ECON-2302, MATH-2281.

ECON-3511 International Economics (3.00 cr.)

Investigates international trade theory and commercial policy theory with empirical applications. Also examined are exchange rates and open economy macroeconomics, which include national income accounting and the balance of payments. Equivalent to ECON-430. Prerequisites: take ECON-2301, MGMT-4600.

ECON-3515 International Trade (3.00 cr.)

Reviews the major theories of international trade. Explores gains from trade, effects of tariff and non-tariff barriers and conduct of commercial policy. Examines the balance of payments, theories of exchange rate determination, and other international economic issues. Prerequisites: take ECON-2301, ECON-2302, MATH-2281.

ECON-3701 Comparative Economic Systems (3.00 cr.)

Study of differences between popular political labels and sets of factors that actually distinguish working economic systems. Equivalent to ECON-435. Prerequisites: take ECON-2301, ECON-2302.

ECON-3901 Mathematical Economics (3.00 cr.)

Provides the mathematical tools used in quantitative economics courses. Prerequisites: take ECON-2301, ECON-2302, MATH-2281, STAT-3700.

ECON-4101 Econometrics I (3.00 cr.)

Focuses on economic measurement, including specification and estimation of econometric models and statistical methods in economic research. Prerequisite: take ECON-3901.

ECON-4102 Econometrics II (3.00 cr.)

Studies economic measurement: specification and estimation of econometric models; statistical methods in economic research at an advanced level. Includes panel data and time series analyses. Prerequisite: take ECON-4101.

ECON-4800 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in economics under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within economics and an instructor to sponsor the work. Equivalent to ECON-470.

ECON-5025 Special Topics in Economic Education (1.00 cr.)

Acquaints students with economic education materials; demonstrates methods of teaching economics concepts, with emphasis on decision-making models, critical thinking skills, and cost benefit analysis. Equivalent to ECON-520.

ECON-6100 Foundations of Economics (3.00 cr.)

Study of the concepts of macro- and microeconomics at an advanced level. This course is a foundation course for the M.B.A. degree. Equivalent to ECON-601.

ECON-6505 Consumer Economics For Teachers (3.00 cr.)

Features an in-depth study of consumer topics. Includes credit, purchasing, insurance, investments, money management, and an overview of the American economic system. Equivalent to ECON-650.

ECON-6600 Teaching Current Economic Issues (3.00 cr.)

Focuses on current microeconomic and macroeconomic issues. Features readings and instructional materials on important economic issues. Topics may include unemployment, inflation, taxation, social security, minimum wage laws, health care, the budget deficit, welfare reform, and international trade. Features speakers and field trips. Equivalent to ECON-701.

ECON-6700 Strategies for Teaching Economics in the Elementary Classroom (3.00 cr.)

Covers basic principles of economics and explores methods of teaching those principles of economics to students in kindergarten through sixth grade. Utilizes exemplary national curriculum projects that are designed to teach economics to elementary school children. Equivalent to ECON-702.

ECON-7115 Strategies for Entrepreneurship Education (3.00 cr.)

Examines entrepreneurship education models at the state and national levels. Examines the contribution of entrepreneurs to the United States economy by using case studies, speakers, and field trips. Examines and analyzes current curriculum materials in entrepreneurship education. Equivalent to ECON-703.

ECON-7125 Public Finance and Taxation for Teachers (3.00 cr.)

Analyzes federal, state, and local taxes, and government programs. Develops criteria to judge what activities government should perform and how it should carry them out. Evaluates the effectiveness of government policies such as subsidies, taxes, and the provision of collective goods. Examines the latest high school curriculum materials on taxation and government finance. Equivalent to ECON-706.

ECON-7135 Teaching about Money, Banking, and Monetary Policy (3.00 cr.)

Analyzes the U.S. banking system, the Federal Reserve system, and the effectiveness of the monetary policy. Students will interact with policy makers and educational consultants from the Federal Reserve Bank of Chicago and will examine and critique curriculum materials designed to teach about money, banking, and monetary policy. Equivalent to ECON-707.

ECON-7145 Macroeconomics for Teachers (3.00 cr.)

Provides in-depth coverage of macroeconomic concepts such as measuring economic performance, public finance, inflation, unemployment, fiscal policy, and monetary policy. Emphasizes various theories on controlling the economy such as Keynesian, Monetarist, supply management, and rational expectations. Equivalent to ECON-841.

ECON-7155 Microeconomics For Teachers (3.00 cr.)

Provides in-depth coverage of microeconomic concepts such as markets and prices, supply and demand, competition and market structure, market failures, and the role of government. Emphasizes methods of teaching these concepts to high school students. Equivalent to ECON-842.

ECON-7200 Current Global Economic Problems (3.00 cr.)

Examines the theory and practice of international trade and economic development. Focuses on world trade and the conduct of commerce among individuals, firms, and governments. Topics include comparative and absolute advantage, free trade, protectionism, balance of payments, exchange rates, and factors influencing economic development. Examines the latest curriculum materials for teaching about international trade. Features speakers and field trips. Equivalent to ECON-704.

ECON-7300 The Role of Labor in a Changing Economy (3.00 cr.)

Analyzes changes in the United States economy and how these changes affect labor-management relations and future career options. Emphasizes the history and development of the labor movement, wage determination, and government policies on labor-management relations. Explores current problems in labor-management relations. Examines current curriculum materials designed to teach about labor-management relations. Equivalent to ECON-705.

ECON-7500 Managerial Economics and Forecasting (3.00 cr.)

Integrates the application of economic theory, statistics, optimization theories, and forecasting models as tools for the managerial decision-making process in a local, regional, national, and global context. The course utilizes a statistical modeling software and develops an industry analysis paper for the applications content of the course. Equivalent to ECON-801. Prerequisites: take MGMT-6700, MATH-2281, and ECON-6100.

ECON-8165 Developing an Advanced Placement Economics Curriculum (3.00 cr.)

Designed to prepare teachers to teach an advanced placement economics course. Emphasizes strategies for teaching the college principles course at the high school level. Utilizes the Advanced Placement Instructional Package published by the Joint Council on Economics Education. Teachers of older high school economics courses would find this course useful. Equivalent to ECON-843.

ECON-8700 Introduction to Economic Sociology (3.00 cr.)

Discusses and analyzes economic processes from a societal perspective. Modern organizations and the changing landscape of the American market system are evaluated by applying concepts and insights from economic sociology. Students are also introduced to the works of great classical economists in an effort to explore how their theories apply to modern socioeconomic problems.

ECON-8810 Economic Development (3.00 cr.)

Deals with economic development as a progressive division of labor. Includes progressive technological specialization and its effect upon economic development. Equivalent to ECON-815. Prerequisites: take ECON-3302, ECON-3404.

ECON-8820 Labor Economics (3.00 cr.)

Study of the development and structure of the labor movement, wage determination, and public policy toward labor. Equivalent to ECON-810. Prerequisites: take ECON-2301, ECON-2302.

ECON-8880 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in economics under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within economics and an instructor to sponsor the work. Equivalent to ECON-870.

ECON-8999 Graduate Thesis/Project (6.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of two faculty in the College of Business and Public Administration and approved by the dean. Students interested in pursuing the doctorate degree in business should select the thesis option. Equivalent to ECON-890.

Education Courses

Education – General

Education – Administration/Supervision

Education – Bilingual-Bicultural

Education –Computer Education

Education –Early Childhood

Education –Elementary

Education –Higher Education Administration

Education –Professional Development

Education –Reading

Education –Special Education

Education - General

EDUC-2310 Foundations of Education (3.00 cr.)

Offered in both lecture and televised formats. Presents an interdisciplinary and developmental overview of the historical, philosophical, and sociological factors that have influenced American education. Identifies and critically analyzes contemporary issues and trends such as teacher accountability, school desegregation, cultural pluralism, and bilingual/multicultural education. Includes 10 clock-hours of field experiences related to the learning disabled and other exceptional learners and those with culturally distinctive backgrounds. Equivalent to EDUC-310.

EDUC-2330 Educational Psychology: Child Growth and Development (3.00 cr.)

A foundation course in theory and principles of development. Examines physical growth patterns, cognitive, language, and social-emotional development of children from prenatal through adolescence. Emphasizes application of this knowledge in planning, implementing, and assessing student activities. Equivalent to EDUC-330.

EDUC-3320 The Future of American Education (3.00 cr.)

Explores an expansive vision of the future of American public education. Examines school organization, educational reform, diversity issues, and includes hands-on experience with a wide array of computer technology suited for classroom use. Fifteen hours of field observation required. Equivalent to EDUC-320. Prerequisite: take EDUC-2310. Corequisite courses: EDUC-3321, EDCP-3101.

EDUC-3321 Effective Teaching and Laboratory (4.00 cr.)

Examines relationships among instructional components: goals/objectives, instruction, and evaluation. Provides beginning instruction on stating goals/objectives and evaluation procedures. Provides alternatives for decisions on teaching strategies and evaluation procedures. Provides opportunities for students to work with media and prepare materials, teach small groups, and receive feedback about teaching. Equivalent to EDUC-321. Prerequisite: take EDUC-2310. Corequisite courses: EDUC-3320, EDCP-3101.

EDUC-4330 Principles of Science Education (3.00 cr.)

Surveys the role of science education in the total school curriculum. Students will become familiar with contemporary science curricula and methods for teaching science. Includes 35 hours of clinical experience in secondary schools. Equivalent to EDUC-433. Prerequisite: take EDUC-2310.

EDUC-4340 Teaching Secondary School Science (3.00 cr.)

Students learn to create positive science classroom climates which promote a pluralistic approach to teaching and eliminate gender biases. Students develop inquiry-based activities to motivate secondary school students and involve them in learning. Technology is utilized as a tool and resource for teaching and learning. Diverse methods of learning assessment are developed. Thirty-five hours of clinical experience required. Equivalent to EDUC-434. Prerequisites: take EDUC-4330, SPED-4100, PSYC-3201.

EDUC-4360 Principles of Secondary Mathematics Education (3.00 cr.)

Investigates the content and various models of the mathematics curriculum for middle school grades (6-8) and high school (9-12) in the U.S. as well as in other cultures. Traces the evolution of contemporary programs and the philosophies that have driven them. Includes study of the NCTM Standards, the Illinois Learning Standards, and the use of various forms of technology as tools for exploring mathematics. Equivalent to EDUC-436. Prerequisite: take EDUC-2310.

EDUC-4370 Teaching Secondary School Mathematics 3.00 cr.)

Introduces prospective teachers to the methodology of teaching middle and secondary school mathematics including the use of instructional materials and media (curricular, manipulatives, and technology). Discusses performance-based assessment and the constructivist viewpoint of learning. Explores ways to integrate mathematics into various disciplines (science, social studies, economics) and apply mathematics to real-world situations. Requires 35 hours of clinical experience. Emphasizes the Principles and Standards for School Mathematics. Equivalent to EDUC-4437, EDUC-437. Prerequisites: take EDUC-4360, SPED-4100, EDUC-4440.

EDUC-4440 Educational Psychology in Action (3.00 cr.)

Emphasizes the educational implications and applications of contemporary educational psychology and research. Explores major perspectives on learning as well as the role of social and cultural processes in learning; how to motivate and manage today's students; and the role of assessment in providing evidence of student learning. Fifteen hours of field observation required. Equivalent to EDUC-440. Prerequisite: take EDUC-2310.

EDUC-4442 Early Adolescent Educational Psychology (3.00 cr.)

Examines the Middle School level philosophy, structure and goals, based on the psychology of early adolescence. Analysis of developmentally appropriate curriculum, instruction, and support systems at the Middle School level. Current teacher roles, classroom management and educational assessment in the Middle School are examined. Knowledge of several theories of adolescent psychology is applied to classroom settings. Equivalent to EDUC-442. Prerequisite: take EDUC-4440.

EDUC-4443 Curriculum and Methods for Middle Schools (3.00 cr.)

As the needs of the early adolescent are unique, so too must be the curriculum and instruction to meet the learner's needs. Explores the curriculum and instructional needs of the early adolescent learner. Models of curriculum and methods of instruction for the Middle School setting will be explored in teams of students. Equivalent to EDUC-443. Prerequisite: take EDUC-4442.

EDUC-4465 Methods of Teaching English (3.00 cr.)

Focuses on the various components of the secondary school English curriculum. Includes study in English language, literature, composition, listening, and reading, with an emphasis on the knowledge, pedagogy and dispositions. Emphasizes the challenges of individual student differences, and instructional technology. Requires 40 hours of field experience for students seeking certificate. Equivalent to EDUC-465. Prerequisites: take EDUC-2310, EDUC-4440, SPED-4100, EDCP-3101, ENGL-4570, ENGL-4575, ENGL-4580.

EDUC-4470 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in education under the supervision of a faculty member. Deals with content not available in organized courses. Equivalent to EDUC-470.

EDUC-4999 Student Teaching (12.00 cr.)

Provides the teacher candidate with directed experiences in planning, organizing, and instructing pupils within a regular classroom of an Illinois public school. Candidate is supervised by a Governors State University faculty member and a school-based cooperating teacher. Includes 15 weeks of full-time classroom experience. Equivalent to EDUC-499.

EDUC-5530 Multicultural Literature in the Classroom (3.00 cr.)

Introduces prospective and practicing teachers to the wealth of contemporary multicultural literature available for students in grades kindergarten through eight. Explores strategies for enhancing literacy development using multicultural literature, as well as methods of implementing multicultural literature across the curriculum. Equivalent to EDUC-530.

EDUC-5531 Teaching Secondary School Mathematics for Teachers (3.00 cr.)

Introduces teachers to the content, methodology, and instructional materials of secondary school mathematics. Explores methods and strategies in a real world learning environment. Emphasizes the guidelines set forth in the Principles and Standards for School Mathematics. Equivalent to EDUC-531. Prerequisites: take EDUC-2310, SPED-4100.

EDUC-5535 Education of the Minorities in the U.S (3.00 cr.)

Examines the history of the schooling of ethnic and racial minority groups in urban America. Focuses on both the public and parochial schools in the acculturation of minority children and adults. Presents ethnic case histories of educational achievement and historical background of issues such as mental testing, desegregation, and tracking. Equivalent to EDUC-535.

EDUC-5640 Teaching Mathematics in the Intermediate and Middle Grades (3.00 cr.)

Introduces prospective and/or in-service teachers to content, methods, and materials for upper-elementary and junior high school mathematics. Explores options for making instructional decisions. Equivalent to EDUC-564. Prerequisites: take MATH-2131, MATH-2141, ELED-4401, ELED-4463.

EDUC-6100 Issues in Education (3.00 cr.)

Graduate students beginning a program explore trends in instructional practice reflectively, emphasizing the identification of current educational issues and problems. Emphasis is placed upon the identification of current educational problems and how instructional practices are related to improvement. Equivalent to EDUC-610.

EDUC-6320 Teaching Mathematics to Low-Achieving Students (3.00 cr.)

Examines the characteristics and needs of low achieving students. Explores content and teaching strategies and emphasizes diagnostic/evaluative procedures. Equivalent to EDUC-632.

EDUC-6330 Principles of Science Education (3.00 cr.)

Surveys the role of science education in the total school curriculum. Students will become familiar with contemporary science curricula and methods for teaching science. Includes 35 hours of clinical experience in secondary schools. Equivalent to EDUC-433.

EDUC-6340 Teaching Secondary School Science (3.00 cr.)

Students learn to create positive science classroom climates which promote a pluralistic approach to teaching and eliminate gender biases. Students develop inquiry-based activities to motivate secondary school students and involve them in learning. Technology is utilized as a tool and resource for teaching and learning. Diverse methods of learning assessment are developed. Thirty-five hours of clinical experience required. Equivalent to EDUC-434.

EDUC-6360 Principles of Secondary Mathematics Education (3.00 cr.)

Investigates the content and various models of the mathematics curriculum for middle school grades (6-8) and high school (9-12) in the U.S. as well as in other cultures. Traces the evolution of contemporary programs and the philosophies that have driven them. Includes study of the NCTM Standards, the Illinois Learning Standards, and the use of various forms of technology as tools for exploring mathematics. Equivalent to EDUC-436.

EDUC-6370 Teaching Secondary School Mathematics (3.00 cr.)

Introduces prospective teachers to the methodology of teaching middle and secondary school mathematics including the use of instructional materials and media (curricular, manipulatives, and technology). Discusses performance-based assessment and the constructivist viewpoint of learning. Explores ways to integrate mathematics into various disciplines (science, social studies, economics) and apply mathematics to real-world situations. Requires 35 hours of clinical experience. Emphasizes the Principles and Standards for School Mathematics, published in 2000. Equivalent to EDUC-437.

EDUC-6400 Teaching and Learning Mathematics (3.00 cr.)

Examines methods of teaching mathematical concepts in elementary and junior high schools based on learning theory, historical trends in mathematics education, and current research. Includes the roles of concrete materials, textbooks, and diagnosis in the teaching of mathematics. Equivalent to EDUC-640.

EDUC-6422 Educational Psychology Applied to the Middle School (3.00 cr.)

Examines the history, philosophy, and psychology surrounding the Middle School. Focuses on a number of related topics including teaching a diverse Middle School population, including all students in instruction, and the psychological, emotional and physical development of the Middle School learner. Equivalent to EDUC-642.

EDUC-6423 Curriculum and Instruction in the Middle School (3.00 cr.)

Examines the curriculum and instruction in the Middle School. Focuses on a number of related topics including instructional techniques for teaching in a diverse Middle School population and the ideal curriculum to meet the needs of the Middle School/Junior High students. Explores teaching methods that assist with the cognitive growth of Middle School/Junior High students. Equivalent to EDUC-643. Prerequisite: take EDUC-6422.

EDUC-6501 Topics In Education (1.00-3.00 cr.)

Experts in the field present selected topics covering new developments in the field of education. Includes discussion of the topics and the implications for theory and practice. Participants have an opportunity to discuss the new developments and, where appropriate, apply techniques and skills. Equivalent to EDUC-650.

EDUC-7200 Instructional Design (3.00 cr.)

Provides an extensive exploration and analysis of instructional design strategies. Covers such topics as design theories, needs assessment, scope and sequence of course topics and selection of appropriate instructional materials and evaluation strategies. Equivalent to EDUC-700. Prerequisite: take EDUC-8257.

EDUC-7210 Teaching Leadership and School Improvement (3.00 cr.)

Investigates the role of the reflective teacher leader in school efficacy, curriculum development, and school improvement. Provides students the opportunity to reflect upon and develop alternative solutions to educational problems while building skills in reflection, collaboration, and leadership. Equivalent to EDUC-710.

EDUC-7212 Digital Primary Sources (3.00 cr.)

Designed to effectively access, integrate, and produce curricula utilizing the Internet and digitized primary source materials from the collections of the Library of Congress. Focuses on the nature of primary sources and classroom applications for digital technology. Provides hands-on experience using the historical tests, photographs, motion pictures, maps and sound recordings from the Library Congress American Memory digital collections. Equivalent to EDUC-721.

EDUC-7732 Issues in Mathematics Curriculum and Instruction (3.00 cr.)

Examines selected issues relating to curriculum, instruction, and learning processes in school mathematics. Issues may include the place of computation in mathematics curriculum, mathematics anxiety, and use of calculators and computers in mathematics instruction. Equivalent to EDUC-732. Prerequisite: take EDUC-6400.

EDUC-7739 Teaching Higher Order Thinking Skills (3.00 cr.)

Investigates the relationship between thinking and writing skills; explores teacher behaviors that stimulate higher order thinking skills; and demonstrates classroom activities promoting generation and organization of ideas in oral and written composition assignments. Equivalent to EDUC-739.

EDUC-8105 Student Learning & Assessment (3.00 cr.)

Examines current theories of learning, intelligence, and motivation. Provides students with working knowledge of assessment techniques and how to relate student assessment and views of learning to educational practices and teacher efficacy. Equivalent to EDUC-800. Prerequisite: take EDUC-6100.

EDUC-8112 The Elementary/Middle School Curriculum (3.00 cr.)

Emphasizes the role of the teacher in curriculum construction and exemplary models of elementary education. Reviews and analyzes research findings, current issues and trends in curriculum organization, and pedagogy essential to developing, implementing, and evaluating effective classroom programs for the learner. Examines the relationship between the elementary/middle school, especially in terms of vertical and horizontal articulation and coordination of the curriculum between these two entities. Equivalent to EDUC-805.

EDUC-8114 Teacher as Researcher (3.00 cr.)

Provides students with a working knowledge of the literature and mechanisms of research, i.e., problem formulation, research design, data collection, data analysis, and interpretation. Equivalent to EDUC-811.

EDUC-8115 Socio-Cultural Factors and Students' Learning (3.00 cr.)

Explores the interaction of sociological and cultural factors as these relate to students' ability to learn. Examines the implications for school administrators and teachers. Equivalent to EDUC-815.

EDUC-8180 Teaching Mathematical Problem-solving and Critical Thinking (3.00 cr.)

Examines problem-solving processes related to teaching mathematics and science. Presents a variety of techniques for identifying problem situations, developing problem-solving techniques, and determining the reasonableness of results. Emphasizes questioning techniques for developing critical thinking. Equivalent to EDUC-818. Prerequisite: take EDUC-6400.

EDUC-8233 Learning Communities and Collaboration (3.00 cr.)

Focuses on reviewing different models of learning communities, assisting practitioners in developing a learning community, and utilizing action research to inform the learning community of problems and issues that impact learning in schools. Equivalent to EDUC-823. Prerequisite: take EDUC-6100.

EDUC-8244 Academic Evaluation and Assessment (3.00 cr.)

Introduces the student to the selection and construction of classroom assessment instruments. The student learns how to write test items, how to match test items with learning behaviors and objectives, how to ensure objectivity, reliability, and validity in constructing tests, and how to compute test statistics. Equivalent to EDUC-824. Prerequisite: take EDUC-6100.

EDUC-8257 Curriculum Development (3.00 cr.)

Identifies factors and processes considered in curriculum planning, instructional design, and development. Includes the assessment of plans for organization of the curriculum and the theory and application of curriculum principles. Students participate in the curriculum development process both in groups and individually. Equivalent to EDUC-825. Prerequisite: take EDUC-6100.

EDUC-8310 Strategies for Teaching Geometry (3.00 cr.)

Examines the scope and sequence of geometric content in the elementary and junior high school mathematics curriculum. Explores the strategies and activities for teaching geometry and measurement concepts and their application in the real world. Equivalent to EDUC-831. Prerequisite: take EDUC-6400.

EDUC-8330 Teaching Mathematics to Mathematically Able Students (3.00 cr.)

Examines the identification and teaching of mathematically able students. Explores appropriate teaching techniques, enrichment activities, and programs that meet the special needs of the mathematically able. Equivalent to EDUC-833. Prerequisite: take EDUC-6400.

EDUC-8463 Reading Remediation in the Classroom (3.00 cr.)

Reviews and extends students' skills in the use and critical evaluation of teaching methods and materials for remediating reading difficulties in the classroom. Emphasizes development of teacher-made as well as the use of commercially-produced materials. Equivalent to EDUC-846. Prerequisite: take SPED-8619.

EDUC-8701 Research Project in (Specialization) (3.00 cr.)

Provides students with opportunities to apply research skills in solving practical educational problems. With faculty supervision in their specializations, students develop researchable problems related to their interests, review related literature, and collect and analyze data to answer the problems. Examples of acceptable projects are action research projects, case studies with individual learners, evaluation studies using defined criteria, and surveys that produce data for the analysis of problems. Equivalent to EDUC-869. Prerequisites: take EDUC-6100, EDUC-8105, EDUC-8114, EDUC-8244.

EDUC-8702 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in education under the supervision of the faculty. Equivalent to EDUC-870.

EDUC-8991 Thesis I in (Specialization) (3.00 cr.)

Provides students with opportunities to initiate in-depth, supervised research in their areas of interest. Complete proposals and Chapters 1 and 2 (including the review of literature) are required. Equivalent to EDUC-890. Prerequisite: take STAT-8260.

EDUC-8992 Thesis II in (Specialization) (3.00 cr.)

Allows students to complete their research initiated in Thesis I. Thesis II culminates with successful oral defense of the research. Equivalent to EDUC-891. Prerequisite: take EDUC-8991.

EDUC-8999 Culminating Experience: (3.00 cr.)

Provides the opportunity to synthesize graduate degree course work by completing an approved thesis, project, portfolio, internship, or other approved experience under the supervision of three faculty members. Cross referenced to EDEC868. Equivalent to EDUC-868.

Education - Administration/Supervision

EDAD-6618 The Adult Learner (3.00 cr.)

An examination of demographic changes focusing attention on adults as well as stages and phases of adult life and adult characteristics as a framework for effective planning, programming, and marketing of adult education. Equivalent to EDAD-618.

EDAD-6621 Foundations of School Administration and Organization (3.00 cr.)

Introduction to the study of educational administration with emphasis upon the nature of the administrative process, administrative theory, and long-range planning and personnel management: overview of structure, governance, policy of public education, and school reforms at the local, state, and federal levels, including legal, business, financial, and the political, social, and cultural contexts of schools. Administration of schools and programs, including multicultural student populations and exceptional children. Equivalent to EDAD-621.

EDAD-6661 Curriculum Development and Learning Theory (3.00 cr.)

Analyzes the basic determinants of curriculum; factors influencing design, current trends, and school reforms, including special and experimental programs and practices. Emphasizes theories and methods of learning and models of teaching in the classroom, as they relate to sociological and cultural factors. Outlines methods for evaluating the effectiveness of curricula and programs. Equivalent to EDAD-601. Prerequisites: take EDAD-6621, EDAD-7729.

EDAD-7713 Leadership and Organizational Behavior (3.00 cr.)

Study of principles of leadership from historical, research, and application perspectives. Focuses on management behavior, leadership relations, group interaction, organizational dynamics, power, change, and diversity. Designed for students of administration, supervisors, administrators, and school service personnel. Equivalent to EDAD-713. Prerequisite: take EDAD-6621.

EDAD-7724 School Supervision (3.00 cr.)

An analysis of the components of supervisory behavior in education and their influence upon the participants in the process of supervision; human and technical skills in personnel management; organizational factors affecting the performance of the supervisor; problematic areas within educational institutions and their influence on supervisory behavior. Practical aspects of program and personnel evaluation; improvement of school learning climate; and academic achievement will be emphasized as they relate to school reform and to both multicultural and exceptional populations. Equivalent to EDAD-724. Prerequisite: take EDAD-6621.

EDAD-7729 Research for School Leaders (3.00 cr.)

Develop skills in research design, including problem statements, hypotheses formulation, population/sample selection, data collection, and statistical analysis and interpretation. Historical, descriptive, casual-comparative, correlational, and experimental studies will be developed as they relate to effective schools and administrative research. Not available for credit to students who have received credit for EDUC810. Equivalent to EDAD-729. Prerequisite: take EDAD-6621.

EDAD-7731 School Community Relations (3.00 cr.)

An analysis of the role of educational policy in the modern community, community power structure, and resources, the social and political context, and the principles of community relations in the context of social change, including group processes, multicultural and multiethnic understanding, the needs of exceptional students, interagency cooperation, funding, and evaluation. Students are provided opportunities to develop materials for use in their institutions. Equivalent to EDAD-731. Prerequisite: take EDAD-6621.

EDAD-7732 Schools and Society (3.00 cr.)

Offered in televised format only. Discusses such social issues as gang involvement, teenage pregnancy, the use of drugs and alcohol by elementary and high school students, the reduced funding base for schools, and the growing trend toward privatization of public schools. Equivalent to EDAD-732.

EDAD-7801 Organizational Leadership (3.00 cr.)

Examines development, implementation, and assessment of organizational structures and strategies related to mission/vision, leadership effectiveness, collaboration, planning to achieve goals, a culture of ethical behavior and trust, and a personalized and motivating environment.

EDAD-7802 Technology Driven Leadership (3.00 cr.)

Focuses on the use of technology to support a digital-age learning culture in schools that promotes enhanced student learning, organizational effectiveness, and ethical and legal citizenship in an evolving, technologically supported world.

EDAD-7803 Principal as Evaluator (3.00 cr.)

Examines evaluation and its relationship to the process, personnel, and organizational factors that affect instructional performance. Specific focus is the evaluation of instructional personnel according to Illinois rules, including the creation and implementation of assistance plans for teachers needing remediation and professional development. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-7804 Principal as Curriculum Leader (3.00 cr.)

Focuses on the knowledge and skills school principals need to lead curriculum development, implementation, and evaluation for a diverse population of P-12 learners, including English language learners and students with disabilities. Data collection, analysis, current research, best practices, and technology needed to support the curriculum are examined. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-7901 Instructional Leadership (3.00 cr.)

Focuses on the roles and responsibilities of school principals to promote the learning and success of all students by examining current research on learning and the characteristics of effective learner-centered teaching in all content areas including literacy and numeracy, the use of technology to support teaching and learning, the use of student assessment to improve student learning, and professional development. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-7904 Effective Operations for Spring (1.00 cr.)

One in a set of three, non-sequential, field-based courses focusing on the responsibilities of effective principals in managing the school to provide an optimum learning environment during the spring term. Addresses key issues in establishing a positive learning culture by stressing management skills. Particular emphasis is placed on building operations and safety, grant management, and school mission and vision. Prerequisites: take EDAD-7801, EDAD-7802. Corequisite courses: EDAD-8201, EDAD-8202, EDAD-8203.

EDAD-7905 Effective Operations for Summer (1.00 cr.)

One in a set of three, non-sequential, field-based courses focusing on the responsibilities of effective principals in managing the school to provide an optimum learning environment during the summer term. Addresses key issues in establishing a positive learning culture by stressing management skills. Particular emphasis is placed on building operations and safety, grant management and school mission and vision. Prerequisites: take EDAD-7801, EDAD-7802. Corequisite courses: EDAD-8201, EDAD-8202, EDAD-8203.

EDAD-7906 Effective Operations for Fall (1.00 cr.)

One in a set of three, non-sequential, field-based courses focusing on the responsibilities of effective principals in managing the school to provide an optimum learning environment during the fall term. Addresses key issues in establishing a positive learning culture by stressing management skills. Particular emphasis is placed on building operations and safety, grant management and school mission and vision. Prerequisites: take EDAD-7801, EDAD-7802. Corequisite courses: EDAD-8201, EDAD-8202, EDAD-8203.

EDAD-8101 School Improvement Process (3.00 cr.)

Analyzes the leader's behavior and the collaborative process of school stakeholders in developing school improvement plans ensuring P-12 students of diverse needs meet the New Illinois Learning Standards Incorporating the Common Core. The use of data in the decision-making process, school climate, and professional development are also examined. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-8102 Leading All Students (3.00 cr.)

Prepares principals to promote the understanding and application of theories of learning and teaching methodologies founded on research-based interventions for a diverse population of P-12 learners, specifically at-risk students, students with disabilities, and English language learners. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-8103 School Law for Principals (3.00 cr.)

Includes analysis and application of legal principles derived from case law, statutes, and administrative regulations affecting Illinois public schools, particularly P-12 students with disabilities and English language learners. Content includes the legal system; roles of federal, state and local governments; the instructional program; students' rights and responsibilities; collective bargaining; and negligence torts. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-8105 Engaging the Community (3.00 cr.)

Analyzes the role of educational policy in the modern community, community power structure and resources, social and political context, and principles of community relations in the context of social change, including group processes, multicultural and multiethnic understanding, needs of exceptional students, interagency cooperation, funding, and evaluation. Prerequisites: take EDAD-7801, EDAD-7802.

EDAD-8201 Principal Internship I (2.00 cr.)

The three-semester internship enables the candidate to be exposed to and participate in a variety of school leadership situations in school settings that represent diverse economic and cultural conditions and involve interaction with various members of the school community while working directly with a mentor.

EDAD-8202 Principal Internship II (2.00 cr.)

The three-semester internship enables the candidate to be exposed to and participate in a variety of school leadership situations in school settings that represent diverse economic and cultural conditions and involve interaction with various members of the school community while working directly with a mentor. Prerequisite: take EDAD-8201.

EDAD-8203 Principal Internship III (2.00 cr.)

The three-semester internship enables the candidate to participate in a variety of school leadership situations in school settings that represent diverse economic and cultural conditions and involve interaction with various members of the school community while working directly with a mentor. Prerequisites: take EDAD-8201, EDAD-8202.

EDAD-8820 The Community College (3.00 cr.)

Studies the community college as a unique type of educational institution. Surveys the historical development, philosophical bases, control, curriculum, and students in the community college system. Equivalent to EDAD-820. Prerequisite: take EDAD-6621.

EDAD-8822 School Administration (3.00 cr.)

A practical examination of elementary and secondary school with emphasis upon the role of the principal in noncurricular problem-solving. Food services, health services, individual personnel problem-solving, working with cooperative educational service agencies, conflict management, leading meetings, special education administration, and his/her relationship with personnel: administrative behavior analyzed in terms of tasks and processes that aid in improving educational programs. School climate and quality learning environment and academic excellence, staff development, curriculum development, finance, action research; opportunity to solve problems with simulated material that includes an emphasis on program and personnel evaluation. Social and cultural factors and special education programs will be analyzed. Equivalent to EDAD-822. Prerequisite: take EDAD-6621.

EDAD-8823 Community College Administration (3.00 cr.)

Examines college administration in different areas of college operations. Focuses on policy-setting processes. Equivalent to EDAD-823. Prerequisites: take EDAD-6621, EDAD-8820.

EDAD-8832 School Finance (3.00 cr.)

Primary focus on the financing of Illinois public schools. The theoretical background and legal bases of public school finance and the application of those theories to various school finance models. Budget analysis, state aid mechanisms, taxing and auditing processes, and legal foundations in relation to salary, transportation, contracts, liability, and managing facilities will be emphasized. Practicing consultants and school business managers, case studies, and simulated materials will be used to highlight practical applications. Equivalent to EDAD-832. Prerequisite: take EDAD-6621.

EDAD-8833 School Law (3.00 cr.)

Includes an analysis of selected general legal principles, case and statute law, and law-making agencies affecting Illinois public schools, including special education. Key content areas include the legal system; role of federal, state, and local governments; the legislative processes; school governance; policies, rules, and regulations; church and state; civil rights; student and parent rights and responsibilities; teacher rights and responsibilities; collective negotiations, torts, and contracts; and legal research. Content is designed for the practical application of school law. Equivalent to EDAD-833. Prerequisites: take EDAD-6621, EDAD-7729.

EDAD-8834 Internship in School Administration I (3.00 cr.)

The major purpose of the practicum is to provide the student with a supervised experience in the functions and duties associated with instructional leadership and school management. Each student will participate in administrative activities related to instructional leadership one term and school management the other term. Examples of tasks include staff and curriculum development, pupil personnel services, establishing and maintaining effective learning environments, implementation of policy, business, and facilities management, and community relations. Equivalent to EDAD-834.

EDAD-8835 Practicum in Instructional Leadership and School Management II (3.00 cr.)

The major purpose of the practicum is to provide the student with a supervised experience in the functions and duties associated with instructional leadership and school management. Each student will participate in administrative activities related to instructional leadership one term and school management the other term. Examples of tasks include staff and curriculum development, pupil personnel services, establishing and maintaining effective learning environments, implementation of policy, business, and facilities management, and community relations. Equivalent to EDAD-835. Prerequisite: take EDAD-8834.

EDAD-8836 Administration of School Personnel (3.00 cr.)

Provides a general understanding of personnel functions in education. Decision-making and problem-solving involving school personnel and supervision will be emphasized. Functions of recruitment, assignment, development, coordination, compensation, appraisal, negotiations, in-service education, motivation, and dismissal are included. Equivalent to EDAD-836. Prerequisite: take EDAD-6621.

EDAD-8838 Collective Negotiations (3.00 cr.)

The development and establishment of collective bargaining with school district groups. Presentation of historical, sociological, and legal perspectives, and current issues in educational collective bargaining, roles of individuals in the bargaining process, and effects in public sector. Participation in simulated collective bargaining exercises to prepare for negotiations, the use of table tactics and strategies, and dealing with impasse resolution and the impact on school budgets. Equivalent to EDAD-838. Prerequisite: take EDAD-6621.

EDAD-8839 School Finance II: Advanced Concepts/CSBO (3.00 cr.)

Reviews central concepts in School Finance I. Extends the student's knowledge and skills in areas such as school bookkeeping, transportation, school building, supervision of ancillary staff, and alternative funding. Equivalent to EDAD-839. Prerequisite: take EDAD-8832.

EDAD-8840 School Finance III: Applications/CSBO (3.00 cr.)

Designed for students planning to become business officials. The course begins with a review of topics and concepts studied in EDAD-8832: School Finance, and EDAD-8839: School Finance II, and then introduces new topics necessary for the preparation of students to become school business officials, topics such as overall personnel functions, including payroll, health insurance, retirement and incentives, accounts payable, negotiations, budgeting, and the use of technology in the business office. Instruction will use a problem-solving model that utilizes actual school situations and the use of technology. Equivalent to EDAD-840. Prerequisite: take EDAD-8838.

EDAD-8842 The Politics Of Education (3.00 cr.)

Examines school systems as politically-influenced entities. Topics include the politics of school governance, strategies of lobbying and negotiation, policy development and implementation, and the use of power, influence, and authority. Focuses on the relationship of these topics to system problems such as diminishing resources and dropping achievement. Students will apply political skills through role-playing and simulation. Equivalent to EDAD-842.

EDAD-8845 Practicum in School Business Management (3.00 cr.)

The major purpose of the field practicum is to provide the student with a supervised experience in the functions and duties associated with school business management and operations. Students will participate in activities related to development and implementation of school business procedures, budget development, transportation, computer operations, and management of non-certificated personnel. Equivalent to EDAD-845.

EDAD-8846 Practical Experience in School Business Management (1.00 cr.)

Provides the student with the required supervision needed to gain experience as a school business official. Student must create a partnership with a school district that is willing to provide opportunities for the student to engage in school business management activities. Equivalent to EDAD-846.

EDAD-8850 Seminar: Educational Policies (3.00 cr.)

Provides an understanding of educational policies at the state, local, and federal levels. Includes legal and political issues involving state and federal educational programs for bilingual and disabled students. Equivalent to EDAD-850. Prerequisite: take EDAD-6621.

EDAD-8860 The Dynamics of Maintaining and Improving School Climate (3.00 cr.)

Examines the dynamics of the relationship among school administration, the community, and the teachers' union and provides strategies for affecting productive working relations among these and other involved groups. The superintendent's role as mediator, negotiator, problem-solver, and strategist is treated as it relates to influencing the school atmosphere. Equivalent to EDAD-860.

EDAD-8865 Information Technology for School Administrators (3.00 cr.)

Emphasizes the leadership role the school administrator plays in developing and executing technology skills with school personnel. Highlights problem-solving skills the principal might use in addressing school related computer use. Provides an overview of productivity and curricular application that the administrator is expected to be familiar. Equivalent to EDAD-865. Prerequisite: take EDAD-6621.

EDAD-8870

Educational Administration Comprehensive Examination (P/NC)

Educational Administration comprehensive examination. Educational Administration graduation requirement. Equivalent to EDAD-870. Prerequisites: take EDAD-6621, EDAD-7713, EDAD-7724, EDAD-7731, EDAD-8822, EDAD-8832, EDAD-8833.

Education – Bilingual-Bicultural

BBED-6520 Foundations of Bilingual and ESL Education (3.00 cr.)

Presents an interdisciplinary overview of the history, philosophy, sociology, culture, psychology, and legislation of bilingual and ESL education. Compares methods and models of bilingual and ESL education. Requires 10 clock-hours of field experience. Equivalent to BBED-520.

BBED-6525 Assessment of Language of Minority Students (3.00 cr.)

Studies current trends in testing and the specific role of tests in the bilingual classroom. Examines selection and interpretation of language, achievement, diagnostic, and intellectual assessments for limited English proficient students. Also discusses current trends and issues relevant to assessment of bilingual students. Requires 20 clock-hours of field experience. Equivalent to BBED-525. Prerequisite: take BBED-6520.

BBED-6530 Methods and Materials for Teaching in Bilingual Programs (3.00 cr.)

Prepares students to function effectively in a bilingual classroom. Identifies and examines specialized instructional strategies, materials, and evaluation stemming from various theories of teaching and learning. Introduces students to curriculum development, including the development of culturally relevant units and lesson plans. Requires 20 clock-hours of field experience. Equivalent to BBED-530. Prerequisite: take BBED-6520.

BBED-6538 Cross Cultural Education (3.00 cr.)

An overview of the ethnic minority groups in the United States and their impact on the school curriculum. Reviews concepts, methods, techniques, materials, and resources as applied to school settings. Requires 10 clock-hours of field experience. Equivalent to BBED-538.

BBED-7977 Reading Strategies in the Bilingual and ESL Classroom (3.00 cr.)

Develops and enhances knowledge and skills associated with instruction of reading in the bilingual classroom. Students will plan and implement reading strategies. Requires 20 clock-hours of fieldwork. Equivalent to BBED-797. Prerequisites: take BBED-6525, ENGL-5308.

BBED-8100 Practicum in Bilingual and ESL (3.00 cr.)

Provides supervised advanced field experience in professional decision-making in the classroom. Students work with limited English proficiency students in various bilingual and/ or ESL programs. Students observe, diagnose the problems, and prescribe effective instructional strategies related to objectives, learning activities, and alternative assessment techniques. Requires 40 to 90 clock-hours of clinical experience. Equivalent to BBED-800.

Education - Computer Education

EDCP-3101 Introduction to Educational Technology (3.00 cr.)

Examines the effect and use of technology in today's educational system, particularly as it applies to the introduction, use, and evaluation of technology as an instructional and managerial aid. Discuss and apply strategies for assessing needs and the selection of hardware and software at an introductory level. Equivalent to EDCP-500.

EDCP-6101 Introduction to Educational Technology (3.00 cr.)

Examines the effect and use of technology in today's educational system, particularly as it applies to the introduction, use, and evaluation of technology as an instructional and managerial aid. Discuss and apply strategies for assessing needs and the selection of hardware and software at an introductory level. Equivalent to EDCP-500.

EDCP-6610 Evaluating Software for Instruction (3.00 cr.)

Examines the role and function of computer software in the instructional process. Activities focus upon the development of criteria appropriate for selecting software as part of classroom instruction and management. Utilizes a curriculum-based decision-making approach to evaluating the function of software. Equivalent to EDCP-610.

EDCP-7320 Educational Applications of the Microcomputer: Mathematics (3.00 cr.)

Presents a variety of software and examines how these might be incorporated into the teaching of mathematical concepts and skills and the development of problem-solving processes. Examines the use of commercial and instructional applications software, the creation of teacher-made software, and the assessment of software and hardware needs. Equivalent to EDCP-732. Prerequisite: take EDCP-6101.

EDCP-7350 Integrating Technology into Reading and Writing Instruction (3.00 cr.)

Provides the student with instructional applications of technology for use in reading, language arts, and writing skills development. Topics span developmental through remedial applications. Particular emphasis is placed upon the use of technology enriching the connection between reading and writing. Equivalent to EDCP-735. Prerequisite: take EDCP-6101.

EDCP-7360 Integrating Technology into Science Instruction (3.00 cr.)

Students develop uses for the integration of Educational Technology tools for the science classrooms. Involves multiple uses of educational technology tools geared toward science teaching. Equivalent to EDCP-736. Prerequisite: take EDCP-6101.

EDCP-7370 Educational Applications of the Microcomputer: Special Education (3.00 cr.)

Investigates the use of microcomputers in special education and the multitude of uses this technology offers those with disabilities. Includes emphasis on user-oriented applications of the microcomputer, classroom problem-solving techniques, and computer-assisted instruction (CAI). Equivalent to EDCP-737. Prerequisite: take EDCP-6101.

EDCP-7700 Information Technology for School Administrators (3.00 cr.)

Emphasizes the leadership role the school administrator plays in developing and executing technology skills with school personnel. Highlights problem solving skills the principal might use in addressing school related computer use. Provides an overview of productivity and curricular application with which the administrator is expected to be familiar. Equivalent to EDCP-770. Prerequisite: take EDAD-6621.

EDCP-8100 Multimedia in Education (3.00 cr.)

Capabilities for the use of multimedia in instruction have increased along with emerging technology. Multimedia describes a variety of hardware and software used alone or in combination to provide text, still images, digitized animation, and sound on a given topic. This course exposes students to these forms of media and provides experience in developing instruction by combining media into interactive presentations utilizing both hardware and software resources. Equivalent to EDCP-810. Prerequisite: take EDCP-6101.

EDCP-8200 Telecommunications in Education (3.00 cr.)

This course is an exploration of the use of computers for communicating with other learners across the world. It also explores the use of telecommunications in the teaching and learning process. With knowledge doubling every five to seven years, it makes sense to examine ways to learn and find information rather than memorize a set of finite facts. This course focuses on the potential for learning outside the walls of the school building. Equivalent to EDCP-820. Prerequisite: take EDCP-6101.

EDCP-8500 Coordinating Educational Technology (3.00 cr.)

Requires students to analyze and synthesize current educational technology issues. Topics covered include uses and abuses of technology, future roles of technology, educational staffing and training issues, hardware and software cost analyses, promoting technology planning and funding, as well as other issues faced by school technology coordinators. Equivalent to EDCP-850. Prerequisite: take EDCP-6101.

Education – Early Childhood

EDEC-3310 Foundations of Early Childhood Education (3.00 cr.)

Investigates historical and philosophical bases of early childhood education. Examines contemporary models, examines the impact of current issues on educational decision-making, and explores options in early childhood education for the future. Equivalent to EDEC-350.

EDEC-3320 Growth and Development of Young Children (3.00 cr.)

Surveys theories and research about children's growth and development from birth through eight years of age. Includes attention to cultural diversity as related to child rearing patterns and development. Causes and characteristics of developmental anomalies are reviewed. This course builds a critical foundation upon which further course work, particularly methods courses, is built. Equivalent to EDEC-360.

EDEC-3371 Effective Teaching and Laboratory for Early Childhood Majors (4.00 cr.)

Reviews instructional terminology as it relates to implementing appropriate teaching practices. Provides discussion and beginning instruction on identifying academic goals/objectives, applying instructional and evaluation procedures, and meeting the needs of diverse learners, including those of cultural diversity and/or special needs. Classroom management strategies will be reviewed. Equivalent to EDEC-321.

EDEC-3380 Typical and Atypical Speech and Language Development (3.00 cr.)

Focuses on the typical and atypical communication and language development of young children, developmentally appropriate practices for facilitating young children's construction of language, creating quality language-learning environments, and the relationship between language and literacy. Equivalent to EDEC-370. Prerequisites: take EDEC-3371, EDEC-3310 EDEC-3320.

EDEC-4420 Methods of Teaching in the Creative Arts P-5 (3.00 cr.)

Provides pre-service teachers with the theoretical background for integrating arts (i.e. art, music, creative movement/dance, and drama) concepts into curricula designed for preschool through elementary school children. Opportunities will be provided to learn skills and strategies that will enable the future teacher to use the arts across the curriculum while developing the whole child. Equivalent to EDEC-410. Prerequisites: take EDEC-3371, SPED-4100 and take EDEC-3310 or EDEC-3320.

EDEC-4430 Observation and Assessment for Young Children with and without Special Needs (3.00 cr.)

The history and issues of early childhood assessment are studied. Experiences in the observation and recording of the behavior of young children are applied. Learners will critique screening approaches, assessment techniques and materials. The relationships between naturalistic and authentic assessment and curriculum and instruction in early childhood education will be emphasized. Equivalent to EDEC-420. Prerequisites: take EDEC-3371, SPED-4100, EDEC-3310, EDEC-3320.

EDEC-4440 Child and Families with and without Special Needs in the Community (3.00 cr.)

Overview of the cultural differences, child-rearing practices, communication patterns, experiences of families, and the life stresses that effect young children and their views of self and others in family, school, and community. Explores ways in which the schools can provide services to families and identifies support networks in the community. Equivalent to EDEC-415. Prerequisites: take EDEC-3371, SPED-4100, EDEC-3310, EDEC-3320. Corequisite course: EDEC-4441.

EDEC-4441 Laboratory 1: Infant and Toddler Methods (1.00 cr.)

Under supervision, students are provided with experience in observing and assessing the development of infants and toddlers, assist in developing and maintaining an appropriate educational environment and planning appropriate learning experiences for the very young child. Students will be delivering teaching episodes, facilitating parent-child interaction, and parent support groups. Requires 30 clock-hours of field experience. Equivalent to EDEC-416. Prerequisites: take EDEC-3371, SPED-4100, EDEC-3310, EDEC-3320. Corequisite courses: EDEC-4440.

EDEC-4450 Preprimary and Special Education Methods (3.00 cr.)

Introduces techniques for individualizing developmentally appropriate instruction in specific content areas for young children with an emphasis on the prekindergarten and kindergarten years. Introduces curriculum development and content related to language and emergent literacy, manipulatives, sensorial materials, blocks, dramatic play, the arts, movement, math, science, and social studies. Examines approaches to working with culturally diverse children and the inclusion of special needs children. Equivalent to EDEC-425. Prerequisites: take EDEC-3371, SPED-4100, EDEC-3310, EDEC-3320. Corequisite course: EDEC-4451.

EDEC-4451 Laboratory 2: Preprimary Methods (1.00 cr.)

Provides field experience in preschool and kindergarten settings. Provides opportunities for students to make, implement, and evaluate decisions under supervision in teaching subject areas associated with EDEC425. Requires 30 clock-hours of supervised fieldwork. Equivalent to EDEC-426. Prerequisites: take EDEC-3371, SPED-4100, EDEC-3310, EDEC-3320. Corequisite course: EDEC-4450.

EDEC-4460 Integrating Instruction in Early Childhood Education (3.00 cr.)

Prepares future teachers to create holistic learning environments for children through planning the physical and social/emotional classroom environment. Includes exploration, analysis, and evaluation techniques in establishing interest centers, attention to children's peer relationships and need for community, appropriate scheduling of classroom activity, and opportunity for children to work on extended projects that include a variety of subjects. Primary emphasis on preschool and early primary children. Includes attention to culturally diverse populations and special needs children. Equivalent to EDEC-460. Prerequisites: take EDEC-4440, EDEC-4441, EDEC-4450, EDEC-4451, EDEC-4480, EDEC-4481, EDEC-4490, EDEC-4491.

EDEC-4480 Literacy Methods in Early Childhood Education (3.00 cr.)

Introduces pre-service teachers to content, methods, and materials for teaching reading, writing, and language arts. Requires teaching small groups of primary grade students. Equivalent to EDEC-432. Prerequisites: take EDEC-4440, EDEC-4450. Corequisite course: EDEC-4481.

EDEC-4481 Laboratory 3: Literacy in Early Childhood Education (1.00 cr.)

Provides opportunities for students to make, implement, and evaluate decisions under supervision in teaching reading, writing, and language arts. Requires teaching small groups of primary grade students. Requires teaching 30 clock-hours of supervised fieldwork. Equivalent to EDEC-431. Prerequisites: take EDEC-4441, EDEC-4451. Corequisite course: EDEC-4480.

EDEC-4490 Methods of Teaching Primary Science, Math, and Social Studies (3.00 cr.)

Introduces prospective teachers to content, methodology, and instructional materials for teaching science, mathematics, social studies, and technology to children from kindergarten through third grade within a community school context. Equivalent to EDEC-440. Prerequisites: take MATH-2141, EDEC-4440, EDEC-4450. Corequisite course: EDEC-4491.

EDEC-4491 Laboratory 4: Teaching Primary Science, Math, and Social Studies (1.00 cr.)

Under supervision, students gain experience in observing and assessing the development of children in the primary grades, assist in developing and maintaining an appropriate educational environment, and create and present learning experiences in mathematics, science, social studies, and computer use. Requires 30 clock-hours of field experience. Equivalent to EDEC-441. Prerequisites: take MATH-2141, EDEC-4441, EDEC-4451. Corequisite course: EDEC-4490.

EDEC-4510 Beginning Writing and Reading Instruction (3.00 cr.)

Introduces teachers to content, methodology, and materials for teaching writing and reading at the preschool and kindergarten through third grade levels. Explores options for making instructional decisions. Equivalent to EDEC-520. Prerequisites: take EDEC-3320, EDEC-3380.

EDEC-4999 Student Teaching in Early Childhood Education (12.00 cr.)

Provides the teacher candidate with directed experiences in planning, organizing, and instructing children within a primary classroom and within a preschool classroom in public schools. A student is supervised in both placements by a Governors State University faculty member and school-based cooperating teacher. Includes 15 weeks of full-time classroom experience. Equivalent to EDEC-499.

EDEC-6620 Methods of Teaching in the Arts (3.00 cr.)

Introduces and evaluates music and art methods and related disciplines, such as dance, movement, and drama for the preschool and primary levels. Includes attention to culturally diverse populations and special needs children. Equivalent to EDEC-665. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820.

EDEC-6640 Children with or without Special Needs and Family in the Community (3.00 cr.)

Focuses on the children with or without special needs, experiences in families and communities, including cultural/ linguistic differences, child-raising practices, communication patterns, and life stresses as it affects young children and their view of self/others. Explores legalities and philosophies to assess ways of being responsive to the needs of families/communities. Identifies consultation/collaboration networks with professionals/agencies in the community. Equivalent to EDEC-652. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820. Corequisite course: EDEC-6641.

EDEC-6641 Laboratory 1: Infant and Toddler (1.00 cr.)

Under supervision, assists with experience in observing infants and toddlers, both typical and atypical, assist in developing and maintaining appropriate educational environment and planning appropriate learning experiences for the young child. Students will be facilitating parent/child interactions and parent support groups. Requires 30 clock-hours of field experience. Equivalent to EDEC-651. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820. Corequisite course: EDEC-6640.

EDEC-6650 Preprimary and Special Education Curriculum Development in Early Childhood (3.00 cr.)

Analyzes techniques for individualizing instruction in specified content areas that are developmentally appropriate for young children with an emphasis on the pre-kindergarten and kindergarten years. Analyzes and evaluates curriculum development and content related to typical and atypical language and emergent literacy, manipulatives, sensorial materials, blocks, dramatic play, the arts, movement, math, science, and social studies. Critiques approaches to working with culturally and linguistically diverse children and children with special needs. Equivalent to EDEC-670. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820. Corequisite course: EDEC-6651.

EDEC-6651 Laboratory 2 Preprimary (1.00 cr.)

Under supervision, students gain experience in observing and assessing the development of preschool and kindergarten-aged children, assist in developing and maintaining an appropriate educational environment, and create and deliver teaching episodes. Requires 30 clock-hours of field experience. Equivalent to EDEC-671. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820. Corequisite course: EDEC-6650.

EDEC-6680 Literacy Methods in Early Childhood Education (3.00 cr.)

Introduces pre-service teachers to writing, reading, and language arts at the primary level. Includes approaches for working with culturally diverse children and special needs children. Equivalent to EDEC-680. Prerequisites: take EDEC-6640, EDEC-6650. Corequisite course: EDEC-6681.

EDEC-6681 Laboratory 3: Literacy Methods in Early Childhood Education (1.00 cr.)

Introduces pre-service teachers to content, methodology, and materials for teaching writing, reading, and language arts at the primary level. Includes approaches for working with culturally diverse children in elementary school language arts. Requires teaching small groups of primary grade students. Requires 30 clock-hours of supervised fieldwork. Equivalent to EDEC-681. Prerequisites: take EDEC-6641, EDEC-6651. Corequisite course: EDEC-6680.

EDEC-6690 Methods of Teaching Primary Math, Science, and Social Studies (3.00 cr.)

Introduces prospective teachers to content, methodology, and instructional materials for teaching science, mathematics, social studies, and technology to children from kindergarten through third grade within a community school context. Equivalent to EDEC-695. Prerequisites: take EDEC-6640, EDEC-6650. Corequisite course: EDEC-6691.

EDEC-6691 Laboratory 4: Teaching Primary Math, Science, and Social Studies (1.00 cr.)

Under supervision, students gain experience in observing and assessing the development of children in the primary grades, assist in developing and maintaining an appropriate educational environment, and create and present learning experiences in mathematics, science, social studies, and computer use. Requires 30 clock hours of field experiences. Equivalent to EDEC-696. Prerequisites: take EDEC-6641, EDEC-6651, MATH-2141. Corequisite course: EDEC-6690.

EDEC-7740 Issues and Methods for At Risk/Special Needs (3.00 cr.)

Examines specific sources, of risk/special needs and the effects on the young children/families. Protective factors of resiliency will be examined. Implications for policy are explored. Developmentally appropriate practices for educating young children with risk factors/special needs in social, cognitive, communication, adaptive, and motor development in school and home settings will be identified. IEP and IFSP's will be analyzed. Requires 15 clock-hours of field experiences. Equivalent to EDEC-740. Prerequisites: take EDEC-3310, EDEC-3320 SPED-4100.

EDEC-7780 Psycholinguistics (3.00 cr.)

Presents theories and research in the field of psycholinguistics, focusing on language development models and the reciprocal relationship between language and cognitive development. Explores and critiques the application of language models for typical and atypical development. Equivalent to EDEC-800. Prerequisites: take EDUC-6100, EDEC-8820, or EDEC-8810.

EDEC-8810 History and Philosophy of Early Childhood Education (3.00 cr.)

Investigates and analyses the status of young children in history, focusing on the development of early childhood education in Western Europe. Traces influences on early childhood education practices in North America and explores emerging cross-cultural exchanges. Equivalent to EDEC-812. Prerequisite: take EDUC-6100.

EDEC-8820 Advanced Early Childhood Development (3.00 cr.)

Emphasizes important theories and research in infancy and early childhood development. Covers both the classical papers that have strongly influenced the field and recently published works that reflect the current state of knowledge of cognitive, social, and emotional development. Focuses on development of the normal child, but linkage to special educational areas is provided. Equivalent to EDEC-822. Prerequisite: take EDEC-3320.

EDEC-8830 Advanced Assessment Techniques for Children with and without Special Needs in Early Childhood (3.00 cr.)

Studies the history and issues of early childhood assessment. Provides experiences in selecting, administering, and interpreting various assessment techniques and materials for children with and without special needs. Legal and ethical issues of assessment and the writing of individualized educational programs of young children will be discussed. Equivalent to EDEC-860. Prerequisites: take EDUC-6100, SPED-4100 and take EDEC-8810 or EDEC-8820.

EDEC-8860 Integrating Instruction in Early Childhood Education (3.00 cr.)

Prepares future teachers to create holistic learning experiences for children through planning of physical and social/emotional classroom environment. Includes exploration, analysis, and evaluation techniques in establishing interest centers, peer relationships, community networks, appropriate activity scheduling, subject integration and extended learning projects. Primary emphasis on preschool and early primary children. Includes attention to culturally diverse populations and special needs children. Equivalent to EDEC-885. Prerequisites: take EDUC-6100, EDEC-8810, EDEC-8820, SPED-4100.

EDEC-8864 Interdisciplinary Team Process (3.00 cr.)

This course will bring together graduate students from any discipline to learn effective communication and processing skills that will allow them to develop the understanding necessary for effective collaboration. Will use communication and team building skills to demonstrate the value of interdisciplinary approaches. Such an interdisciplinary approach will show students effective techniques for valuing and educating client/customers, identifying and overcoming barriers to effective customer/client service, and leading to outcomes desired by the client/customer. Equivalent to EDEC-864.

EDEC-8968 Culminating Experience (3.00 cr.)

Provides the opportunity to synthesize graduate degree coursework by completing an approved thesis, project, portfolio, internship or other experience under the supervision of three faculty members. Equivalent to EDEC-868.

EDEC-8999 Student Teaching (1.00-12.00 cr.)

Provides the teacher candidate with directed experiences in planning, organizing, and instructing children within a primary classroom and within a preschool classroom in public schools. A student is supervised in both placements by a Governors State University faculty member and school-based cooperating teacher. Includes 15 weeks of full-time classroom experience. Equivalent to EDEC-899.

Education - Elementary

ELED-3301 Teaching Laboratory I (1.00 cr.)

Provides opportunities for students to make, implement, and evaluate decisions under supervision in teaching reading and language arts. Requires teaching small groups of elementary students. Requires 30 clock-hours of fieldwork. Equivalent to ELED-301. Prerequisite: take EDUC-3321. Corequisite courses: ELED-3302, ELED-3303.

ELED-3302 Teaching Language Arts in Elementary Schools (3.00 cr.)

Introduces prospective teachers to content, methodology, and materials for elementary school language arts. Explores options for making instructional decisions. Equivalent to ELED-302. Prerequisites: take EDUC-3320, EDUC-3321. Corequisite courses: ELED-3301, ELED-3303.

ELED-3303 Developmental Reading in Elementary Schools (3.00 cr.)

Introduces prospective teachers to content, methodology, and materials for elementary school reading. Explores options for making instructional decisions. Equivalent to ELED-303. Prerequisites: take EDUC-3320, EDUC-3321. Corequisite courses: ELED-3301, ELED-3302.

ELED-4401 Teaching Laboratory II (1.00 cr.)

Provides opportunities for students to make, implement, and evaluate decisions under supervision in teaching mathematics, science, and social studies. Requires teaching small groups of elementary students. Requires 30 clock-hours of fieldwork. Equivalent to ELED-401. Prerequisite: take ELED-3301. Corequisite courses: ELED-4460, ELED-4463, ELED-4466.

ELED-4420 Teaching Creative Arts P-9 (3.00 cr.)

This course provides pre-service teachers with the theoretical background for integrating arts (i.e. art, music, creative movement/dance, and drama) concepts into curricula designed for preschool through elementary school children. Opportunities will be provided to learn skills and strategies that will enable the future teacher to use the arts across the curriculum while developing the whole child. Equivalent to ELED-410. Prerequisites: take EDUC-3321, EDUC-2330, SPED-4100.

ELED-4430 Teaching Elementary Health & Physical Education (2.00 cr.)

This course provides the theoretical background for teaching health and wellness concepts, and for understanding the links between movement and learning. Opportunities will be provided to develop skills and strategies necessary for conflict resolution, cooperative learning and group play. The course offers practice for integrating subject area learning with health education and physical development. Equivalent to ELED-430. Prerequisite: take HLSC-3100.

ELED-4450 Corrective Reading Instruction (3.00 cr.)

Introduces prospective teachers to content, methods, and materials for corrective reading instruction. Explores options for making instructional decisions for students who are experiencing minor reading problems. Must be taken before student teaching. Equivalent to ELED-450. Prerequisite: take ELED-3303.

ELED-4460 Teaching Science in Elementary Schools (3.00 cr.)

Introduces and orients pre-service teachers to content, methods, and materials for elementary school science. Equivalent to ELED-460. Prerequisites: take ELED-3302, ELED-3303. Corequisite courses: ELED-4401, ELED-4463, ELED-4466.

ELED-4463 Teaching Mathematics in Elementary Schools (3.00 cr.)

Introduces prospective teachers to content, methodology, and materials for elementary school mathematics. Explores options for making instructional decisions. Equivalent to ELED-463. Prerequisites: take ELED-3302, ELED-3303, MATH-2131, MATH-2141. Corequisite courses: ELED-4401, ELED-4460, ELED-4466.

ELED-4466 Teaching Social Studies in Elementary Schools (3.00 cr.)

Introduces prospective teachers to content, methodology, and materials for elementary school social studies. Explores options for making instructional decisions. Includes 10 hours of field experience. Equivalent to ELED-466. Prerequisites: take ELED-3302, ELED-3303, POLS-2100, GEOG-2500, HIST-3110, HIST-3120. Corequisite courses: ELED-4401, ELED-4460, ELED-4463.

ELED-4999 Student Teaching (12.00 cr.)

Supervised teaching for 12 weeks, generally in a public school, under the supervision of a superior classroom teacher and a university supervisor. Equivalent to ELED-499.

ELED-5500 Teaching in the Inclusive Classroom (3.00 cr.)

Examines methods of teaching students with exceptionalities in the regular education classroom. Equivalent to ELED-500. Prerequisites: take ELED-3301, SPED-4100.

Education - Higher Education Administration

HEAD-6618 The Adult Learner (3.00 cr.)

Examines characteristics of higher education students in various programs. Analyzes enrollment trends of adult learners as compared with and contrasted against traditional age students. Distinguishes program planning, marketing, and program delivery in relation to the adult learner, student needs, and demographic changes. Equivalent to HEAD-618.

HEAD-6621 Foundations of Higher Education Administration and Organization (3.00 cr.)

Emphasizes the nature of the administrative process, administrative theory, and long-range planning and personnel management: overview of structure, governance, policy or public education, and school reform at the local, state, and federal levels. Equivalent to HEAD-621.

HEAD-6625 Institutions of Higher Education (3.00 cr.)

Examines the school of higher learning as a unique type of educational institution. Surveys the historical development, philosophical bases, control, curriculum, students in this system, governance structures, and trends, in higher education. Equivalent to HEAD-625. Prerequisite: take HEAD-6621.

HEAD-7713 Leadership and Organizational Behavior in Higher Education. (3.00 cr.)

Covers the principles of leadership from historical, research, and application perspectives. Focuses on management behavior, leader-team relations, group interaction, and organizational dynamics. Equivalent to HEAD-713. Prerequisite: take HEAD-6621.

HEAD-7731 Community Relations and Higher Education (3.00 cr.)

Analyzes the role of higher education policy in modern community, community power structure and resources, the social and political context, and the principles of higher education-community relations in the context of social change, including group processes, multicultural and multi-ethnic understanding, the needs of the adult learner, interagency cooperation, funding, and evaluation. Equivalent to HEAD-731. Prerequisite: take HEAD-6621.

HEAD-8823 Higher Education Administration (3.00 cr.)

Examines university, college and other institutions of higher education administration in different areas of operation and focuses on policy-setting processes. Includes distinctive organizational and environmental features of colleges and universities and how these features affect the behavior and management of these organizations. Equivalent to HEAD-823. Prerequisite: take HEAD-6625.

HEAD-8832 Higher Education Finance (3.00 cr.)

Examines issues and trends of finance for institutions of higher learning. Studies funding, expenditures, and budgeting at the institutional, state, and federal level. Equivalent to HEAD-832. Prerequisite: take HEAD-6621.

HEAD-8833 Higher Education Law (3.00 cr.)

Focuses on legal issues in higher education including intellectual property, collective bargaining, academic freedom, students' rights, and affirmative action. Equivalent to HEAD-833. Prerequisites: take HEAD-6621, EDAD-7729.

HEAD-8834 Practicum in Higher Education Administration I (3.00 cr.)

Provides candidates with a supervised experience in the functions and duties associated with instructional leadership at the college level and higher education management. Emphasizes to candidates the behaviors, best practices, and dispositions of instructional leadership. Equivalent to HEAD-834. Prerequisites: take HEAD-6621, EDAD-7729.

HEAD-8835 Practicum in Higher Education Administration II (3.00 cr.)

Provides candidates with additional supervised experience in the functions and duties associated with leadership at the college level and higher education management. Emphasizes to candidates the behaviors, best practices, and dispositions of management. Equivalent to HEAD-835. Prerequisites: take HEAD-6621, HEAD-8834.

HEAD-8850 Seminar: Higher Education Policies and Issues (3.00 cr.)

To identify, research, and analyze current issues and the influence role regarding policy development. Equivalent to HEAD-850. Prerequisite: take HEAD-6621.

Education – Professional Development

EDPD-6511 Sharing Nature with Children (1.00 cr.)

Develops awareness, understanding, and appreciation of nature while acquainting teachers and youth leaders with outdoor activities that can be used with groups. Through active participation in an extended outdoor education/ recreation experience, teachers and youth leaders become familiar with a wide variety of activities. Equivalent to EDPD-511.

EDPD-6621 Seasonal Science Methods: Autumn (1.00 cr.)

Examines the structures and patterns found in the natural world during autumn. Includes using dichotomous keys for plant and insect identification, astronomy of the fall skies, examination of a restored prairie, migratory bird identification, and mapping skills. Techniques for monitoring a natural site will be presented. Offers classroom activities in mathematics, literature, and related arts. A weekend field study course designed for elementary teachers. Equivalent to EDPD-621.

EDPD-6622 Seasonal Science Methods: Spring (1.00 cr.)

An outdoor education workshop providing the background information and activities for exploring the emergence aspects of the spring season. Weather, astronomy, pond water, plant identification, animal studies, and literature related to spring will be covered. A weekend field study course designed for elementary teachers. Equivalent to EDPD-622.

EDPD-6623 Seasonal Science Methods: Summer (1.00 cr.)

An outdoor education workshop providing background information and activities for exploring the emergence aspects of the summer season. Weather, astronomy, pond water, plant identification, animal studies, and literature related to summer will be covered. A weekend field study course designed for elementary teachers. Equivalent to EDPD-623.

EDPD-6624 Seasonal Science Methods: Winter (1.00 cr.)

An outdoor education workshop exploring the unique opportunities for wonder, delight, and mystery allowed only by winter. Activities in tracking, winter literature, energy implications, astronomy, snow, ice, and tree and twig identification will be presented. A weekend field study course designed for elementary teachers. Equivalent to EDPD-624.

EDPD-6650 Topics in Professional Development (1.00-3.00 cr.)

Provides a series of skill- or competency-based training sessions directly related to improving the actual delivery, management, or reporting of classroom learning experiences for children and adolescents. Equivalent to EDPD-650.

Education - Reading

READ-6190 Narrative and Expository Writing Instruction, K-12 (3.00 cr.)

Examines research on the development of K-12 students' spelling and writing, especially narrative and expository writing. Provides a foundation in instructional strategies and curricular organizations based on this research. Topics include developmental spelling, reading-writing connections, word processors and other technology, conventions of standard American English, assessment of students' writing, and implementation of lessons plans in-class. Equivalent to READ-819.

READ-6200 Psycholinguistics and Sociolinguistic Foundations of Literacy (3.00 cr.)

Examines major theories and research on language development, cognition, and learning. Studies the relationships of linguistic differences and social, cultural, and environmental factors to language and literacy development. Equivalent to READ-820.

READ-6210 Survey of Reading: Theory and Practice (3.00 cr.)

Provides a foundation in models and theories of reading process and current issues in reading instruction. Investigates research on developmental reading practices with varied populations, including special needs and linguistically and culturally diverse students. Develops teachers' ability to read, discuss, and write about reading research and to connect that research to their own classrooms. Equivalent to READ-821.

READ-6220 Teaching Reading in the Content Areas (3.00 cr.)

Explores instructional practices that facilitate learning with content area texts. Identifies strategies for vocabulary and concept development, comprehending difficult text, and writing to enhance understanding of content materials. Includes assessment practices which can provide a basis for instructional decisions in content area teaching. Technology intensive course that requires the use of Internet research, a listserv, online instructional materials, and electronic learning logs. Equivalent to READ-822.

READ-6230 Integrating Children's and Adolescents' Literature Across the Curriculum (3.00 cr.)

Study of literature reflecting the culture, experiences, and contributions of distinct cultural and ethnic groups, as well as other literature for enhancing content area learning across the K-12 curriculum. Equivalent to READ-823.

READ-7240 Reading Diagnosis (3.00 cr.)

Emphasizes the application of knowledge of theory and research to the selection of appropriate standardized and informal diagnostics in analyzing, administering, scoring, and interpreting diagnostic measures. Preparation of a diagnostic case study is required. Equivalent to READ-824. Prerequisites: take READ-6200, READ-6210, READ-6220, and READ-6190 or READ-6230.

READ-7250 Reading Remediation (3.00 cr.)

Focuses on the development of instructional strategies and selection of materials for individuals who have moderate to severe reading problems. Emphasizes adapting instruction to the interests and needs of students with exceptionalities and includes strategies for assisting students with linguistic and cultural differences. Requires preparation of a remediation case study. Equivalent to READ-825. Prerequisites: take READ-6230, READ-7240.

READ-7300 Developing and Supervising the School Reading Program (3.00 cr.)

Examines local, state, and national trends in the development of goals and standards for the reading curriculum. Focuses on application of needs assessment as the basis for implementing school change and teacher professional development efforts. Includes supervisory approaches, such as mentoring and peer coaching, for improving the knowledge and skills of teachers. Equivalent to READ-830. Prerequisite: take READ-7250.

READ-8260 Reading Practicum I: Elementary School Reading (3.00 cr.)

Provides a supervised clinical experience in assessing and remediating the reading difficulties of students. Continues exploration of adaptations appropriate for students with cultural and linguistic differences, as well as those necessary for students with exceptionalities. Equivalent to READ-826. Prerequisites: take READ-6190, READ-7250.

READ-8270 Reading Practicum II: Middle and Secondary School Reading (3.00 cr.)

Provides a supervised clinical experience in assessing and remediating the reading difficulties of students. Continues exploration of adaptations appropriate for students with cultural and linguistic differences, as well as those necessary for students with exceptionalities. Equivalent to READ-827. Prerequisites: take READ-6190, READ-7250.

READ-8828 Seminar in Reading Research (3.00 cr.)

In-depth study of selected literacy problems. Emphasizes evaluation of research findings and application of research methods to the study of classroom, school, and community literacy issues. Equivalent to READ-828.

Education - Special Education

SPED-4100 Survey of Students with Exceptionalities (3.00 cr.)

Offered in both lecture and televised formats. Introduces study of various exceptionalities, including learning disabilities and their impact on classroom learning. Focuses on methods for mainstreaming children with exceptionalities and considers legal requirements, policies, and directions in special education. Requires 15 clock-hours of fieldwork. Equivalent to SPED-510.

SPED-6101 Survey of Students with Exceptionalities (3.00 cr.)

Offered in both lecture and televised formats. Introduces study of various exceptionalities, including learning disabilities and their impact on classroom learning. Focuses on methods for mainstreaming children with exceptionalities and considers legal requirements, policies, and directions in special education. Requires 15 clock-hours of fieldwork. Equivalent to SPED-510.

SPED-6102 Survey of Teaching-Learning Models for Gifted Education (3.00 cr.)

Presents teaching-learning models that are used in the development of a program for the gifted. Discusses the role of critical enrichment education programs. Evaluates the appropriate use and proper application of various program models. Requires 10 clock-hours of fieldwork. Equivalent to SPED-610.

SPED-6210 Developing Programs in Schools for Students Who Are Gifted (3.00 cr.)

Proposes the concept of curriculum differentiation for those who are gifted. Outlines a program initiation framework. Provides a step-by-step procedure for planning and implementing gifted programming. Requires 10 clock-hours of fieldwork. Equivalent to SPED-621. Prerequisite: take SPED-6101.

SPED-6240 Characteristics of Students with Emotional/ Behavior Disorders (3.00 cr.)

Explores various definitions, causes, characteristics, treatments, and instructional strategies involved in educating students with behavior disorders. Requires 15 to 20 hours of fieldwork. Equivalent to SPED-624. Prerequisite: take SPED-8619.

SPED-6250 Characteristics of Students with Cognitive/Mental Impairments (3.00 cr.)

Examines the theoretical foundations of mental retardation/ cognitive impairments and attempts to relate the various constructs to such issues as causation, prevention, and selection of appropriate psychoeducational means to identify such impairments. Additional attention is given to the effects of these individuals upon their family community. Requires 20 hours of fieldwork. Equivalent to SPED-625. Prerequisite: take SPED-8619.

SPED-6400 Characteristics of Students with Learning Disabilities (3.00 cr.)

Examines the theoretical foundations of learning disabilities and attempts to relate the various constructs to such issues as causation, prevention, and selection of appropriate psychoeducational means to identify specific learning problems. Additional attention is given to the effects of these individuals upon their family community. Equivalent to SPED-640. Prerequisite: take SPED-8619.

SPED-6410 Methods for Teaching Trainable/Severe/Profound Students with Mental Impairments (3.00 cr.)

Identifies the programming areas and professional procedures required to plan and implement appropriate instructional programs for the students with moderate to severe mental retardation. Examines specific federal mandates which assure these individuals the right to individual treatment plans and access to community and public educational systems. Requires 20 hours of fieldwork. Equivalent to SPED-641. Prerequisite: take SPED-6250.

SPED-6440 Methods for Teaching Students with Behavior Disorders (3.00 cr.)

Studies the conditions which initiate and perpetuate inappropriate social behaviors which interfere with learning. Examines various strategies and methods that foster program planning and implementation for groups and students. Requires 15 to 20 hours of fieldwork. Equivalent to SPED-644. Prerequisite: take SPED-6240.

SPED-6450 Methods of Teaching Individuals with Learning Disabilities (3.00 cr.)

Examines the procedures for planning and implementing instructional programs for individuals with specific learning disabilities. Provides methods and strategies consistent with the federal mandate to initiate instructional planning from predetermined educational goals (IEP). Requires 20 hours of fieldwork. Equivalent to SPED-645. Prerequisite: take SPED-6400.

SPED-6500 Topics in Special Education (1.00-3.00 cr.)

Involves experts in special education addressing selected topics of current concern in the field. Discusses implications both for theory and practice. Participants have an opportunity to discuss the topics and, where appropriate, apply techniques and skills. Equivalent to SPED-650.

SPED-6999 Special Education Student Teaching (9.00 cr.)

Provides graduate candidates with experience in teaching students with disabilities. Each candidate is placed in a special education setting commensurate with experiences required for certification sought (i.e., students with LD, S/ED, MR/MI/CI, PH, traumatic brain injury (TBI) and autism). WebCt seminar activities are also required. Equivalent to SPED-699.

SPED-8200 Learning Characteristics of Learners with Exceptionalities (3.00 cr.)

Investigates the cognitive and psychomotor abilities of students of students encompassed by the Illinois LBS I Unlimited credential, i.e., students with LD, S/ED, MR/MI/CI, PH, traumatic brain injury (TBI) and autism. Requires 30 clock-hours of fieldwork. Equivalent to SPED-820. Prerequisite: take SPED-6101.

SPED-8310 Behavioral Characteristics of Learners with Exceptionalities (3.00 cr.)

Examines the social-affective development across the continuum of behaviors of students encompassed by the Illinois LBS I Unlimited credential, i.e., students with LD, S/ED, MR/MI/CI, PH, traumatic brain injury (TBI) and autism. Investigates theoretical approaches utilized in identification of exceptionalities. Requires 30 clock-hours of fieldwork. Equivalent to SPED-831. Prerequisite: take SPED-8200.

SPED-8350 Methods for Teaching Learners with Exceptionalities (3.00 cr.)

Investigates advanced methods and teaching techniques for use with the full range of students encompassed by the Illinois LBS I Unlimited credential, i.e., students with LD, S/ED, MR/MI/CI, PH, traumatic brain injury (TBI) and autism. Examines strategies for curriculum development and writing IEPs. Requires 30 clock-hours of fieldwork. Equivalent to SPED-835. Prerequisites: take SPED-8619, SPED-8200, SPED-8310.

SPED-8400 Special Education Practicum I (1.00 cr.)

Provides professional experience in designing, implementing, and evaluating instructional intervention. Requires preparation of a case study, an IEP, and 30 clock-hours of fieldwork. Equivalent to SPED-840. Prerequisites: take SPED-8200, SPED-8310.

SPED-8500 Special Education Practicum II (1.00 cr.)

Provides advanced professional experience in designing and implementing instructional and behavioral intervention for exceptional children in multicategorical special education settings. Requires 30 clock-hours of fieldwork. Equivalent to SPED-850. Prerequisites: take SPED-8200, SPED-8310.

SPED-8600 Collaboration Skills for Teachers and Support Personnel (3.00 cr.)

Provides teachers and other school personnel with collaborative models to enhance student and classroom performance. Presents a systematic, collaborative problem-solving approach for creating alternative instructional strategies. Focuses on observation, instructional and data collection techniques, parent collaboration, intervention development, program evaluation, and accountability. Requires 30 clock-hours of field experience. Equivalent to SPED-860. Prerequisite: take SPED-6101.

SPED-8619 Psychological Diagnosis of Learners with Exceptionalities (3.00 cr.)

Examines basic assumptions, assessment procedures, techniques, and instruments in the evaluation of individuals with special needs. Emphasizes prescriptive ability, assessment, and potential level of functioning. Requires 30 clock-hours of fieldwork. Equivalent to SPED-619. Prerequisite: take SPED-6101.

SPED-8805 Administration and Supervision of Special Education (3.00 cr.)

Provides an overview of the functions, responsibilities, and problems in the organization, administration, and supervision of special education programs at the federal, state, and local levels. Emphasizes current rules and regulations. Equivalent to SPED-805.

SPED-8963 Special Education Practicum III (1.00 cr.)

Provides advanced professional experience in discipline and behavior management with an emphasis on educating adolescents with exceptionalities in secondary programs. Requires participation in the implementation of behavioral management activities and 30 clock-hours of fieldwork. Equivalent to SPED-863. Prerequisites: take SPED-8400, SPED-8500.

SPED-8999 Graduate Seminar in Multicategorical Special Education (4.00 cr.)

Examines current trends and issues in multicategorical special education. Explores contemporary philosophies of educating students with disabilities, instructional alternatives, and service delivery programs. Serves as culminating project for the master of arts degree in Multicategorical Special Education. Equivalent to SPED-865. Prerequisite: take SPED-8350.

English

ENGL-2910 Writing Principles (3.00 cr.)

Emphasizes principles, techniques, form, and style in writing. Equivalent to ENGL-310.

ENGL-3101 Composition: Structure Style (3.00 cr.)

Covers the structure of standard English, from the basics of punctuation to sophisticated questions of usage and style. This course is designed to reinforce students' command of the English language and their ability to write for other content-specific courses and in the workplace. Equivalent to ENGL-301.

ENGL-3105 Writing, Information, and Technology Across the Disciplines (3.00 cr.)

Helps students develop and integrate skills for writing, accessing, and analyzing information, and using information-based technology across subject disciplines. Students will analyze and practice discourse conventions, critical thinking, and information access within the humanities, social sciences, and physical sciences. Instruction in library research skills and the web as a presentation tool are central to this course. Online course. Equivalent to ENGL-305. Prerequisite: take ENGL-3101.

ENGL-3108 Living Literature: The Classics and You (3.00 cr.)

Explores the relevance of classic texts to contemporary lives includes Genesis, Homer, Sophocles, Virgil, Dante, Shakespeare, Moliere, Milton, Voltaire, Goethe, Flaubert, Dostoevsky, Tolstoy, and Kafka. Equivalent to ENGL-308.

ENGL-3111 English Literature I (3.00 cr.)

Surveys a selection of literary masterpieces from Anglo-Saxon origins through the Middle Ages and the English Renaissance to the Restoration and eighteenth century. Equivalent to ENGL-311.

ENGL-3112 English Literature II (3.00 cr.)

Surveys a selection of literary masterpieces in English literature from the Romantic period through the Victorian and Modern periods to the present. Equivalent to ENGL-312. Prerequisite: take ENGL-3111.

ENGL-3115 Studies in Mythology (3.00 cr.)

Introduces world mythology with special emphasis on the ancient Greek and Roman classical periods. Explores the mythological cultural contexts and the aesthetic influences in literature, art, and music. Equivalent to ENGL-315. Prerequisite: take ENGL-3101.

ENGL-3121 American Literature I (3.00 cr.)

Focuses on the major writers, works, and related background in American literature before 1865. Equivalent to ENGL-321.

ENGL-3122 American Literature II (3.00 cr.)

Focuses on the major writers, works, and related background in American literature, 1865 -1945. Equivalent to ENGL-322. Prerequisite: take ENGL-3121.

ENGL-3123 Modern American Poetry: Voices and Visions (3.00 cr.)

Offered in televised format only. An introductory literature course emphasizing relationships of the poets, their influence on each other and on those who followed them, and their place in American literature. Compares and contrasts the American vernacular voice with modern European idiom, the democratic image of society with the poet as a privileged visionary, and the poetry of social conscience with a poetry of metaphysical rumination. Equivalent to ENGL-420.

ENGL-3330 Studies in Literature (3.00 cr.)

Emphasizes the relationship between critical reading and critical writing about literature. Introduces a variety of literary genres, criticism, research and documentation according to Modern Language Association guideline. Equivalent to ENGL-330. Prerequisite: take ENGL-3101.

ENGL-4100 Advanced Composition (3.00 cr.)

Advanced writing is a course in critical reading, critical thinking, research, and writing. Tackling this enterprise by a combination of four approaches, we will 1) study composition techniques, rhetorical principles, and questions of usage; 2) analyze samples of professional writing; 3) practice writing and rewriting to acquire a habit of literate expression; and 4) share our own work and respond helpfully to the work of others. Equivalent to ENGL-400.

ENGL-4105 Studies In Rhetoric (3.00 cr.)

Emphasizes a singular aspect of rhetoric: classical rhetoric; the relationship of composition theory and literature; research in rhetoric, composition, and computing. Focuses also on the student's ability to write analytically about the readings. Equivalent to ENGL-410.

ENGL-4110 Linguistics (3.00 cr.)

Provides a comprehensive introduction to the ways in which linguistics describe language, focusing especially on English. Explores linguistic structure from sound (phonetics and phonology) to meaning and use (semantics and pragmatics). Examines major issues and subdisciplines in the systematic study of language, including dialects, prescriptivism, and language abuse, style, historical change, usage and definitions of standards, and the differences between speech and writing. Equivalent to ENGL-501. Prerequisite: take ENGL-3101.

ENGL-4111 African Novel (3.00 cr.)

A critical analysis of the literature written by selected major African writers. Equivalent to ENGL-511.

ENGL-4121 Advanced Survey of Black Literature (3.00 cr.)

Offered both as a classroom (lecture format) and a correspondence course. An advanced survey course of black literature. Covers a wide variety of works from several genres. Provides a model for approaching Black literature from a variety of literary and sociocultural perspectives. Equivalent to ENGL-512.

ENGL-4131 Comparative Latin American Literature (3.00 cr.)

Studies the Latin American novel. Covers major writers of different Latin American countries and the poetry of protest and revolution in the 20th century. Equivalent to ENGL-521. Prerequisites: take ENGL-3121, ENGL-3122.

ENGL-4141 American Poets (3.00 cr.)

Emphasizes the relationships of the American poets, their unique features, and critical response to their work. Explores historical and critical contexts that requires integration of poetry and criticism. Equivalent to ENGL-522.

ENGL-4151 Literature of Immigrant Children (3.00 cr.)

Readings and analysis of fiction produced by the immigrant children, the white ethnics, who emigrated to the U.S. in the late 19th century. Set in context with mainstream American writers and Black American literature. Equivalent to ENGL-532.

ENGL-4161 Chinese Literature and Culture (3.00 cr.)

Introduces Chinese culture through the progress and splendor of its literature. Emphasizes the different literary genres presented by the major writers of China, the structures of the language, and their varying native influences on Chinese culture. Equivalent to ENGL-541.

ENGL-4171 Native American Literature (3.00 cr.)

This course serves as an introduction to the novels and poetry written by Native American authors. In order to understand the development of the novels, we will also read essays relevant to the events, issues, and concerns attending the historical interactions between Native Americans and Euro-Americans in North America. Equivalent to ENGL-556.

ENGL-4172 Contemporary Native American Authors (3.00 cr.)

This telecourse is an introduction to the fictional literature produced by contemporary Native Americans. The authors of the works studied were guests for the taping segments. Modes of discourse and the impact of Native American cultures, concerns, and philosophy on the fiction and poetry of these authors are the primary foci of the course. Equivalent to ENGL-5172, ENGL-558.

ENGL-4173 Native Americans in Film (3.00 cr.)

Examines the use of the stereotypical "celluloid Indian" in films of the last 100 years. Special attention will be paid to the political and social ramifications of the representation of Native Americans. Equivalent to ENGL-559.

ENGL-4181 Asian American Literature (3.00 cr.)

Asian-Americans have a commonality in their immigration experiences, all of which are being articulated and fast becoming the threads of a literary tradition shaping the now maturing Asian-American literature. It tells the story that "Asian and Pacific Americans have shed sweat and blood in the struggle for America's nationhood . . . they have greatly enriched our cultural heritage and institutions." (Proclamation 4727 of President Carter for APA week.) Equivalent to ENGL-502.

ENGL-4190 Writing Across the Curriculum in the Common Core (3.00 cr.)

Exploration of the major theories about writing's role in disciplines across the curriculum to improve both writing and learning of disciplinary concepts. Students will explore the role of writing in the Common Core, which emphasizes research-supported writing and argument, abilities that students need to learn and develop from middle school through college. Teaching practices that support writing development in many contexts, the importance of teaming teachers across the levels and across the disciplines and recent writing theory will be included.

ENGL-4200 Literary Criticism (3.00 cr.)

Examines major approaches to criticism as a means of critiquing literature from a variety of perspectives on a variety of levels. Equivalent to ENGL-542.

ENGL-4205 Modern English Grammar (3.00 cr.)

Studies the structure of English from a variety of perspectives. Emphasizes traditional components of English, such as the parts of speech, sentence construction, mechanics and issues of style. The course develops portable skills future teachers may carry into their classrooms. While the bulk of the course focuses on standard usage, the cultural relevance of grammar study will be the subject of ongoing discussion. Equivalent to ENGL-505. Prerequisite: take ENGL-3101.

ENGL-4210 Writing Poetry (3.00 cr.)

Integrated poetry study with directed practice in the writing of poetry. Special attention to the types and structures available to the poetry writer. Equivalent to ENGL-421. Prerequisites: take ENGL-3101, ENGL-3123.

ENGL-4300 Historical Studies in the English Language (3.00 cr.)

Focuses on the historical development of English language studies. Emphasizes the major contemporary theories of grammar, including structural, transformational, tagmemic, and traditional. Also examines two major approaches to language, psycholinguistic and sociolinguistic. Equivalent to ENGL-592. Prerequisite: take ENGL-4110.

ENGL-4307 African American English (3.00 cr.)

This course is designed to introduce students to African American Vernacular English (AAVE), also known as Ebonics, and explores its historical and sociocultural contexts. It includes extensive written and oral applications of the semantics, syntax, and phonology of the Ebonic language system. Equivalent to ENGL-507. Prerequisite: take ENGL-3101.

ENGL-4387 Exploring Barriers in Race, Class, and Gender (3.00 cr.)

Offers an in-depth study of politics, economics, and social implications of race, class and gender. Focuses on the ways the discourses of race, class, and gender are produced as well as on the ways these discourse patterns orchestrate the relations between people everyday lives and the various social/political institutions that govern them. Equivalent to ENGL-587.

ENGL-4431 Literature for Children and Adolescents (3.00 cr.)

Offered in both lecture and televised formats. Introduces the student to the variety of literature available for children and adolescents. Examines establishing criteria for selection of literature for children and adolescents, including criteria related to reading levels, student interests, quality of materials, and psychological, cultural, and social issues. Equivalent to ENGL-531.

ENGL-4435 Literature and History (3.00 cr.)

Explores the relationships among ideas that have political, social, and historical importance and the developments in history for which these ideas have consequences. Topics vary and include the 1920s and modern Europe (19th and 20th centuries). Equivalent to ENGL-5435, ENGL-535.

ENGL-4460 Philosophical Themes in Contemporary Literature (3.00 cr.)

Examines philosophical ideas embodied in literary works of art and presents a methodology of thematic studies in literature. Equivalent to ENGL-560.

ENGL-4462 Studies in Literary Genre (3.00 cr.)

Examines a selected literary genre, drawn from traditional categories and/or contemporary forms, placing the selected genre in the context of its historical development. This is a variable offering and may be taken more than once under different subtitles. Equivalent to ENGL-562.

ENGL-4475 The Short Story: Crossing Cultures (3.00 cr.)

Examines the short story as genre and analyzes the ways in which writers from a variety of backgrounds and contexts make meaning. Encourages analytic responses to the texts that help to understand cross-cultural boundaries. Equivalent to ENGL-575.

ENGL-4483 Literature of the Environment (3.00 cr.)

Involves many forms of dialogue on issues pertinent to humanity's relationship with the Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet and its needs and a better control of writing in response to learning. Equivalent to ENGL-5483, ENGL-583.

ENGL-4485 Film: Analysis, Criticism, Ideologies (3.00 cr.)

Course examines, analyzes, and, where appropriate, "reads against" a canon of American and foreign films using contexts from social, political, and literary-critical theory. Equivalent to ENGL-585. Prerequisites: take ENGL-3111, ENGL-3112, ENGL-3121, or ENGL-3122.

ENGL-4500 Play Analysis (3.00 cr.)

Study of drama, with emphasis on critical analysis of structure, genre, theme, style, character, language, dramatic event, and points of view (actor, director, critic, audience). Introduction to theatre research methods.

ENGL-4505 Major English Authors (3.00 cr.)

Concentrated study of selected authors. Students may take course for credit more than once, because the selected authors selected change from year to year. Equivalent to ENGL-510. Prerequisites: take ENGL-3111, ENGL-3112.

ENGL-4510 Major American Authors (3.00 cr.)

Individual American writers will be studied in-depth. Students may take course for credit three times providing different authors are studied. Equivalent to ENGL-520. Prerequisites: take ENGL-3121, ENGL-3122.

ENGL-4515 Major Black Authors (3.00 cr.)

Concentrated study of selected Black authors. Students may take course for credit more than once, because the authors change from year to year. Equivalent to ENGL-515.

ENGL-4520 Contemporary Literature (3.00 cr.)

Focuses on the work and related background of Anglophone writers after 1945. Course may be taken for credit three times providing different authors or topics are studied. Equivalent to ENGL-524.

ENGL-4550 Shakespeare's Plays (3.00 cr.)

Reading and analysis of Shakespeare's plays. This course is offered in two segments "Plays before 1600" and "Plays after 1600." When both courses are taken, the first meets core requirements and the second is credited as an elective. Graduate students will address textual problems. Equivalent to ENGL-551.

ENGL-4570 Writing Theory and Practice in the Secondary Classroom (3.00 cr.)

Provides a forum for sharing ideas and proven strategies for teaching writing at the high school level and models an inquiry-oriented classroom to learn, practice, and reflect upon instructional strategies in writing at the secondary level. Equivalent to ENGL-573. Prerequisites: take ENGL-4205, ENGL-4600.

ENGL-4575 Reading Theory and Practice in the Secondary Schools (3.00 cr.)

Focuses on building reading comprehension strategies appropriate for readers in secondary schools. Teacher processes for developing critical literacy, engaging students, and connecting to texts. Reveals how highly engaged young adult readers produce meaning, and teaches meaning-making strategies to use with reluctant readers. Includes 12.5 hours of micro-teaching field experiences for undergraduates seeking certification in English secondary education. Equivalent to ENGL-574. Prerequisites: take ENGL-4205, ENGL-4600, EDCP-3101.

ENGL-4580 Read and Rap: Literature for Young Adult Readers (3.00 cr.)

Introduces the variety of literatures available for young adult readers (middle school and high school students). Examines establishing criteria for the selection of literature for young adults, including criteria related to student interests, reading levels, quality of materials, and psychological, historical, cultural, political, and social issues. Emphasizes the components necessary for the creation of thematic literature units to be used in secondary language arts classrooms. Equivalent to ENGL-533. Prerequisites: take ENGL-3101, ENGL-3112, ENGL-3122, ENGL-4570, ENGL-4575, EDUC-2310.

ENGL-4600 Rhetorical Theory and Practice (3.00 cr.)

Examines the history of rhetoric and composition and applies this to contemporary issues in rhetorical theory and pedagogical practice. Develops the student's abilities as a writer and/or as a teacher of writing. Writing intensive course. Equivalent to ENGL-570. Prerequisites: take ENGL-3101, ENGL-4600.

ENGL-4625 Advanced Writing (3.00 cr.)

An advanced writing course for students who want further work in editing their own writing and improving its style. Will treat issues of style and revision in a workshop environment. Open to students in all disciplines. Will help students develop strategies to respond to any writing situation, whether personal, academic, business, or on the Internet. Equivalent to ENGL-525. Prerequisite: take ENGL-3101.

ENGL-4626 Technical Writing I (3.00 cr.)

Study, discussion, and writing of technical descriptions and processes, business communications and correspondence, formal and informal proposals, and reports. Equivalent to ENGL-526. Prerequisite: take ENGL-3101.

ENGL-4627 Technical Writing II: Computer Sciences; Technical Writing II: Health Industry; Technical Writing II: Business Applications; Technical Writing II: Sciences (3.00 cr.)

Designed as a continuation of ENGL-4626. Students will apply the basics learned in that introductory course to the specific applications necessary for given general fields. Equivalent to ENGL-527. Prerequisite: take ENGL-4626.

ENGL-4630 Persuasion Analysis (3.00 cr.)

Studies modern persuasion techniques used by advertising, political parties, and the government. Examines specific counter-propaganda techniques. Designed primarily for high school teachers who teach persuasion and propaganda analysis, consumer education, and the like. Equivalent to ENGL-545. Prerequisite: take ENGL-3101.

ENGL-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in English under the supervision of the faculty. May be repeated once for additional credit, under different topic. Equivalent to ENGL-470.

ENGL-4800 English Internship (1.00-3.00 cr.)

Provides English majors and minors with meaningful opportunities to apply and refine their academic skills in supervised, professional environments.

ENGL-4900 English Capstone (3.00 cr.)

Leads English majors in a culminating experience in writing, research, and literary analysis. Students will synthesize the skills and knowledge they have developed in their major and showcase these by completing a capstone project. Students will also project how their English skills may be adapted to serve their future personal and professional goals. Prerequisites: take ENGL-4100, ENGL-4200 and take ENGL-4505 or ENGL-4510.

ENGL-5080 Special Topics: English (1.00-3.00 cr.)

Experts in the field present selected topics in writing, language, and literature. Includes discussion of the topics and implications for theory and practices. Because of varying topics, this course may be taken more than once. Equivalent to ENGL-580. Prerequisite: take ENGL-3101.

ENGL-5308 Teaching English As a Second Language (3.00 cr.)

Application of linguistic principles and various methods of language instruction to the teaching of English language skills to individuals learning English as a second language. Emphasizes techniques for effective utilization of first language skills in second language learning. Curricula and materials will be examined. Equivalent to ENGL-508. Prerequisite: take ENGL-3101.

ENGL-5628 Advanced Technical Writing (3.00 cr.)

Students will apply what they have learned in the introductory course and the field-focused course. The class will be made up of students who have chosen differing pathways. In helping each other during this course, students will have an opportunity to refine their own skills and learn from their peers in other fields. Equivalent to ENGL-528. Prerequisite: take ENGL-4627.

ENGL-6111 African Novel (3.00 cr.)

A critical analysis of the literature written by selected major African writers. Equivalent to ENGL-511.

ENGL-6121 Teaching English as a Second Language (3.00 cr.)

Offered both as a classroom (lecture format) and a correspondence course. An advanced survey course of black literature. Covers a wide variety of works from several genres. Provides a model for approaching Black literature from a variety of literary and sociocultural perspectives. Equivalent to ENGL-512.

ENGL-6131 Comparative Latin American Literature (3.00 cr.)

Studies the Latin American novel. Covers major writers of different Latin American countries and the poetry of protest and revolution in the 20th century. Equivalent to ENGL-521.

ENGL-6141 American Poets (3.00 cr.)

Emphasizes the relationships of the American poets, their unique features, and critical response to their work. Explores historical and critical contexts that requires integration of poetry and criticism. Equivalent to ENGL-522.

ENGL-6151 Literature of Immigrant Children (3.00 cr.)

Readings and analysis of fiction produced by the immigrant children, the white ethnics, who emigrated to the U.S. in the late 19th century. Set in context with mainstream American writers and Black American literature. Equivalent to ENGL-532.

ENGL-6161 Chinese Literature and Culture (3.00 cr.)

Introduces Chinese culture through the progress and splendor of its literature. Emphasizes the different literary genres presented by the major writers of China, the structures of the language, and their varying native influences on Chinese culture. Equivalent to ENGL-541.

ENGL-6171 Native American Literature (3.00 cr.)

This course serves as an introduction to the novels and poetry written by Native American authors. In order to understand the development of the novels, we will also read essays relevant to the events, issues, and concerns attending the historical interactions between Native Americans and Euro-Americans in North America. Equivalent to ENGL-556.

ENGL-6172 Contemporary Native American Authors (3.00 cr.)

This telecourse is an introduction to the fictional literature produced by contemporary Native Americans. The authors of the works studied were guests for the taping segments. Modes of discourse and the impact of Native American cultures, concerns, and philosophy on the fiction and poetry of these authors are the primary foci of the course. Equivalent to ENGL-5172, ENGL-558.

ENGL-6173 Native Americans in Film (3.00 cr.)

Examines the use of the stereotypical "celluloid Indian" in films of the last 100 years. Special attention will be paid to the political and social ramifications of the representation of Native Americans. Equivalent to ENGL-559.

ENGL-6181 Asian-American Literature (3.00 cr.)

Asian-Americans have a commonality in their immigration experiences, all of which are being articulated and fast becoming the threads of a literary tradition shaping the now maturing Asian-American literature. It tells the story that "Asian and Pacific Americans have shed sweat and blood in the struggle for America's nationhood . . . they have greatly enriched our cultural heritage and institutions." (Proclamation 4727 of President Carter for APA week.) Equivalent to ENGL-502.

ENGL-6190 Writing Across the Curriculum in the Common Core (3.00 cr.)

Exploration of the major theories about writing's role in disciplines across the curriculum to improve both writing and learning of disciplinary concepts. Students will explore the role of writing in the Common Core, which emphasizes research-supported writing and argument, abilities that students need to learn and develop from middle school through college. Teaching practices that support writing development in many contexts, the importance of teaming teachers across the levels and across the disciplines and recent writing theory will be included.

ENGL-6220 Women in Latin American Literature (3.00 cr.)

Studies literary works produced by women in Latin America. Includes a critical analysis of other works that reflect the role women play in society. Equivalent to ENGL-620.

ENGL-6307 African-American English (3.00 cr.)

This course is designed to introduce students to African American Vernacular English (AAVE), also known as Ebonics, and explores its historical and sociocultural contexts. It includes extensive written and oral applications of the semantics, syntax, and phonology of the Ebonic language system. Equivalent to ENGL-507.

ENGL-6387 Exploring Barriers in Race, Class, and Gender (3.00 cr.)

Offers an in-depth study of politics, economics, and social implications of race, class and gender. Focuses on the ways the discourses of race, class, and gender are produced as well as on the ways these discourse patterns orchestrate the relations between people everyday lives and the various social/political institutions that govern them. Equivalent to ENGL-587.

ENGL-6400 Pro-Seminar Teachers of Writing (3.00 cr.)

Emphasizes the methods and practice of teaching writing. Focuses on methods of motivating students, pre-writing, free writing, style development, revision, and evaluation. Equivalent to ENGL-690.

ENGL-6431 Literature for Children and Adolescents (3.00 cr.)

Offered in both lecture and televised formats. Introduces the student to the variety of literature available for children and adolescents. Examines establishing criteria for selection of literature for children and adolescents, including criteria related to reading levels, student interests, quality of materials, and psychological, cultural, and social issues. Equivalent to ENGL-531.

ENGL-6435 Literature and History (3.00 cr.)

Explores the relationships among ideas that have political, social, and historical importance and the developments in history for which these ideas have consequences. Topics vary and include the 1920s and modern Europe (19th and 20th centuries). Equivalent to ENGL-5435, ENGL-535.

ENGL-6460 Philosophical Themes in Contemporary Literature (3.00 cr.)

Examines philosophical ideas embodied in literary works of art and presents a methodology of thematic studies in literature. Equivalent to ENGL-560.

ENGL-6462 Studies in Literary Genre (3.00 cr.)

Examines a selected literary genre, drawn from traditional categories and/or contemporary forms, placing the selected genre in the context of its historical development. This is a variable offering and may be taken more than once under different subtitles. Equivalent to ENGL-562.

ENGL-6475 The Short Story: Crossing Cultures (3.00 cr.)

Examines the short story as genre and analyzes the ways in which writers from a variety of backgrounds and contexts make meaning. Encourages analytic responses to the texts that help to understand cross-cultural boundaries. Equivalent to ENGL-575.

ENGL-6483 Literature of the Environment (3.00 cr.)

Involves many forms of dialogue on issues pertinent to humanity's relationship with the Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet and its needs and a better control of writing in response to learning. Equivalent to ENGL-5483, ENGL-583.

ENGL-6485 Film: Analysis, Criticism, Ideologies (3.00 cr.)

Course examines, analyzes, and, where appropriate, "reads against" a canon of American and foreign films using contexts from social, political, and literary-critical theory. Equivalent to ENGL-585. Prerequisites: take ENGL-3111, ENGL-3112, ENGL-3121, ENGL-3122.

ENGL-6500 Play Analysis (3.00 cr.)

Study of drama, with emphasis on critical analysis of structure, genre, theme, style, character, language, dramatic event, and points of view (actor, director, critic, audience). Introduction to theatre research methods.

ENGL-6505 Major English Authors (3.00 cr.)

Concentrated study of selected authors. Students may take course for credit more than once, because the selected authors selected change from year to year. Equivalent to ENGL-510.

ENGL-6510 Major American Authors (3.00 cr.)

Individual American writers will be studied in-depth. Students may take course for credit three times providing different authors are studied. Equivalent to ENGL-520. Prerequisite: take ENGL-3121 or ENGL-3122.

ENGL-6515 Major Black Authors (3.00 cr.)

Concentrated study of selected Black authors. Students may take course for credit more than once, because the authors change from year to year. Equivalent to ENGL-515.

ENGL-6520 Contemporary Literature (3.00 cr.)

Focuses on the work and related background of Anglophone writers after 1945. Course may be taken for credit three times providing different authors or topics are studied. Equivalent to ENGL-524.

ENGL-6550 Shakespeare's Plays (3.00 cr.)

Reading and analysis of Shakespeare's plays. This course is offered in two segments "Plays before 1600" and "Plays after 1600." When both courses are taken, the first meets core requirements and the second is credited as an elective. Graduate students will address textual problems. Equivalent to ENGL-551.

ENGL-6570 Writing Theory and Practice in the Secondary Classroom (3.00 cr.)

Provides a forum for sharing ideas and proven strategies for teaching writing at the high school level and models an inquiry-oriented classroom to learn, practice, and reflect upon instructional strategies in writing at the secondary level. Equivalent to ENGL-573. Prerequisite: take ENGL-4205 ENGL-4600.

ENGL-6575 Reading Theory and Practice in the Secondary Schools (3.00 cr.)

Focuses on building reading comprehension strategies appropriate for readers in secondary schools. Teacher processes for developing critical literacy, engaging students, and connecting to texts. Reveals how highly engaged young adult readers produce meaning, and teaches meaning-making strategies to use with reluctant readers. Includes 12.5 hours of micro-teaching field experiences for undergraduates seeking certification in English secondary education. Equivalent to ENGL-574. Prerequisites: take ENGL-4205, ENGL-4600, EDCP-3101.

ENGL-6580 Read and Rap: Literature for Young Adult Readers (3.00 cr.)

Introduces the variety of literatures available for young adult readers (middle school and high school students). Examines establishing criteria for the selection of literature for young adults, including criteria related to student interests, reading levels, quality of materials, and psychological, historical, cultural, political, and social issues. Emphasizes the components necessary for the creation of thematic literature units to be used in secondary language arts classrooms. Equivalent to ENGL-533.

ENGL-7100 Introduction to Graduate Studies (3.00 cr.)

This course provides an introduction to graduate work in English, developing the terminological, bibliographic, and analytical skills fundamental to graduate-level research. Topics include English as a discipline, graduate-level research skills, and current issues and practices in the field. Equivalent to ENGL-800.

ENGL-7200 Seminar: Studies in Theory (3.00 cr.)

Focuses on extensive readings in a major area of rhetorical, literary, and critical theory. Possible topics include feminist theory, psychoanalytical theory, deconstruction, narrative theory, reader-response theory, cultural studies, ethnic studies, and postcolonial studies. This course, under a separate topic, may be repeated for credit. Equivalent to ENGL-830. Prerequisites: take ENGL-3111, ENGL-3112.

ENGL-7300 Seminar: Philosophy in Literature (3.00 cr.)

Focuses on philosophical themes in literature. Offers a forum at an advanced level where thematic studies are the focus of investigation in literary works. Equivalent to ENGL-840.

ENGL-7500 College Composition Theory and Practice (3.00 cr.)

Introduces the histories, theories, and practices of composition studies to prepare future instructors for college composition. Topics are approached from both the perspective of current theoretical debate and practical classroom application, and include composing processes, collaborative writing, peer-reviews, argument and the rhetorical tradition, creating assignments, ways of responding to student writing, assessment, and grading. Equivalent to ENGL-815. Prerequisite: take ENGL-4100.

ENGL-8540 Seminar: British Literature (3.00 cr.)

Explores selected works of British literature. Focuses on period, theme, or author in English literature, with the literature placed in its cultural and historical context. Course may be repeated once for credit under a different topic. Equivalent to ENGL-845. Prerequisites: take ENGL-3111, ENGL-3112.

ENGL-8550 Seminar: American Literature (3.00 cr.)

Focuses on a period, theme, or author in American literature. Typically, students read both primary and secondary literary works and secondary critical and historical analyses. This course, under a separate topic, may be repeated once for credit. Equivalent to ENGL-850. Prerequisites: take ENGL-3121, ENGL-3122.

ENGL-8560 Seminar: Women's Literature (3.00 cr.)

Explores selected works of women writers with attention to the cultural and historical contexts in which they wrote. Focuses on the development of a tradition of women's writing English, including British, American, and/or Anglophone writers. May be repeated for credit under different topics. Equivalent to ENGL-855.

ENGL-8570 Seminar: World Literature (3.00 cr.)

Explores selected works of world literature. Focuses English, including translations from other languages and works written in English. Focuses on period, theme, or genre, with the literature placed in context. Course may be repeated once for credit under a different topic. Equivalent to ENGL-865.

ENGL-8700 Graduate Research (1.00-4.00 cr.)

Individual reading and research in English under the supervision of the English faculty. Students may take course for credit more than once providing it is a different topic. Equivalent to ENGL-870.

ENGL-8750 Graduate Research (1.00-4.00 cr.)

Individual reading and research in English under the supervision of the English faculty. Students may take course for credit more than once providing it is a different topic. Equivalent to ENGL-870.

ENGL-8900 Graduate Thesis (3.00 cr.)

Provides the English student with the opportunity to synthesize graduate work by developing and completing a thesis specific to the student's interests in English. Equivalent to ENGL-890. Prerequisite: take ENGL-8700.

ENGL-8950 Comprehensive Examination in English (1.00 cr.)

Students prepare for and take a comprehensive exam drawn from the graduate level seminars in literature, rhetorical, and critical theory. Emphasis is on a critical reflection of literature. Results are used as a formative assessment. Equivalent to ENGL-892.

Entrepreneurship

ENTR-3100 Principles of Entrepreneurship (3.00 cr.)

Emphasizes what it takes to start a business by examining the differing forms of entrepreneurship and all aspects of the entrepreneurial process. Equivalent to ENTR-310.

ENTR-4100 Entrepreneurial Opportunity (3.00 cr.)

Emphasizes the different methods of locating and/or creating entrepreneurial opportunities. Equivalent to ENTR-410. Prerequisite: take ENTR-3100.

ENTR-4200 Entrepreneurial Accounting (3.00 cr.)

Emphasizes the financial measurements essential for monitoring and managing an entrepreneurial venture. This course is specifically tailored for entrepreneurs who are not likely accounting majors. Equivalent to ENTR-420. Prerequisites: take ENTR-4100, ACCT-2110, ACCT-2111.

ENTR-4300 Entrepreneurial Ethics and the Law (3.00 cr.)

Emphasizes the legal challenges inherent in entrepreneurial ventures and suggest strategies for meeting those challenges without sacrificing business objectives. Equivalent to ENTR-430. Prerequisite: take ENTR-4100.

ENTR-4400 Entrepreneurial Finance (3.00 cr.)

Emphasizes the basic financial concepts and tools for financial decision making in entrepreneurial environments, with special focus on start-up ventures. Equivalent to ENTR-440. Prerequisites: take ENTR-4200, FIN-3110.

ENTR-4500 Entrepreneurial Leadership (3.00 cr.)

Emphasizes the transformational strategies necessary to lead an entrepreneurial company. Equivalent to ENTR-450. Prerequisite: take ENTR-4100.

ENTR-4600 Entrepreneurial Marketing (3.00 cr.)

Emphasizes the marketing methods, tools, and tactics necessary for successfully building and launching a new business opportunity. Equivalent to ENTR-460. Prerequisites: take ENTR-4100, MKTG-2100.

ENTR-4700 Social Entrepreneurship (3.00 cr.)

Explains the concept of social entrepreneurship, its significance and practical relevance in the context of business discipline. Demonstrates how business skills can be effectively used to address complex social problems. Evaluates opportunities for developing social ventures, strategies for mobilizing resources, and systematic methods for the measurement of performance. Equivalent to MGMT-460. Prerequisite: take ENTR-3100.

ENTR-4880 Entrepreneurial Internship (3.00 cr.)

Provides entrepreneurship students with supervised practical experience. Associates each intern with a start-up company (incubator or hatchery) where there will be opportunity for the intern to participate in meaningful decision making. Equivalent to MGMT-490.

ENTR-4900 Entrepreneurial Project (3.00 cr.)

Capstone course for the Entrepreneurship concentration. May be used for an entrepreneurial internship, preparation for new venture creation, or preparation for acquisition of a franchise. Equivalent to ENTR-480.

ENTR-7100 Principles of Corporate Entrepreneurship (3.00 cr.)

Emphasizes the tools needed to allow a manager to react flexibly, faster, aggressively and innovatively in order to maintain the competitive edge of an entrepreneur. Equivalent to ENTR-730.

ENTR-8100 Corporate Entrepreneurial Opportunity (3.00 cr.)

Emphasizes the different methods of locating and/or creating entrepreneurial opportunities. Equivalent to ENTR-810. Prerequisite: take ENTR-7100.

ENTR-8500 Corporate Entrepreneurial Leadership (3.00 cr.)

Emphasizes the transformational strategies necessary to lead an entrepreneurial company. Equivalent to ENTR-850. Prerequisite: take ENTR-8100.

Finance

FIN-3110 Principles of Financial Management (3.00 cr.)

Deals with theory and practice of the financial management function in planning, raising, and directing the efficient allocation of funds within the firm. Lecture/ discussion/online course. Equivalent to FIN-301. Prerequisites: take ACCT-2110, STAT-2700.

FIN-3501 Investments (3.00 cr.)

Involves study of the principles of investment securities with varying degrees of risk and return. Includes topics on investment risk, historical risk-return relationships, valuation of alternative financial instruments, technical analysis, procedures of the securities industry, formula investing, tax considerations, investment companies, and personal investment policy. Equivalent to FIN-460. Prerequisite: take FIN-3110.

FIN-4110 Advanced Corporate Finance (3.00 cr.)

Focuses on the application of financial management tools and techniques. The case study method is used to cover such topics as profit planning, leverage analysis, working capital management, capital budgeting, and valuation of the firm. Equivalent to FIN-420. Prerequisite: take FIN-3110.

FIN-4201 Insurance and Risk Management (3.00 cr.)

Analyzes the nature and scope of the various risk exposures generally facing individuals and profit and nonprofit organizations. Examines alternate methods of dealing with risk exposures, including the use of insurance as a risk-handling device. Features topics on personal risks, property risks, third-party liability risks, and the nature and types of insurance contracts. Students will learn to apply risk management techniques to their professional and personal affairs. Equivalent to FIN-440. Prerequisite: take FIN-3110.

FIN-4350 International Financial Management (3.00 cr.)

Focuses on international aspects of financial management. Particular emphasis is placed on control of exchange rate and financing multinational corporations. Equivalent to FIN-425. Prerequisites: take FIN-3110, MGMT-4600.

FIN-4501 Financial Options and Futures (3.00 cr.)

The study of modern concepts and issues in financial options and futures markets. Emphasis on risk management in financial institutions and applications in corporate finance and funds management. Equivalent to FIN-436. Prerequisite: take FIN-3501.

FIN-4502 Advanced Investments (3.00 cr.)

A review of investment and portfolio management theory. The objective will be to develop superior long-term investment strategies. Current literature will be reviewed. Equivalent to FIN-465. Prerequisite: take FIN-3501.

FIN-4530 Financial Institutions and Markets (3.00 cr.)

This course focuses on both the financial system and its important players. Topics include operation of the securities markets, determination of interest rates, characteristics of important financial instruments, portfolio policies of financial institutions, and the effect of government's regulation on the financial system. Equivalent to FIN-455. Prerequisite: take FIN-4110.

FIN-4805 Independent Study (3.00 cr.)

Independent study is intended to provide better students with the opportunity to study a topic of their choice in finance under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within finance and an instructor to sponsor the work. Equivalent to FIN-470.

FIN-4810 Internship (3.00 cr.)

Designed to provide finance students with supervised practical experiences in applied settings. Equivalent to FIN-480.

FIN-7101 Problems in Financial Management (3.00 cr.)

Covers the problems faced by the financial officer in management of funds in the business firm. Emphasizes developing skills and techniques to implement capital expenditure policies, solving short-term and long-term financing problems, and establishing dividend policies. Equivalent to FIN-801. Prerequisite: take ACCT-6100.

FIN-7501 Investments (3.00 cr.)

Studies the principles of investment in securities with varying degrees of risk and return. Includes topics on investment risk, historical risk-return relationships, valuation of alternative financial instruments, technical analysis, procedures of the securities industry, formula investing, tax considerations, investment companies, and personal investment policy. Equivalent to FIN-850. Prerequisites: take FIN-7101, STAT-2700.

FIN-7805 Independent Study (3.00 cr.)

Independent study is intended to provide better students with the opportunity to study a topic of their choice in finance under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within finance and an instructor to sponsor the work. Equivalent to FIN-870.

FIN-7810 Internship (3.00 cr.)

Designed to provide finance students with supervised practical experience in applied settings. Equivalent to FIN-880.

FIN-8101 Advanced Financial Management (3.00 cr.)

An intensive study of theories and analytical tools with emphasis on their application to the solution of various financial problems of business firms. Includes topics on working capital management, capital expenditure decisions, estimation of the cost of capital, and dividend policy decision. Equivalent to FIN-865. Prerequisites: take FIN-7101, STAT-3700.

FIN-8350 International Finance (3.00 cr.)

Explores all areas of corporate finance from the perspective of a multinational corporation concentrating on decision elements that are rarely encountered by domestic firms such as multiple currencies, varying rates of inflation, differing tax systems, multiple money markets, exchange rate controls, segmented capital markets, and country risks. Emphasizes how to take advantage of being multinational. Equivalent to FIN-825. Prerequisites: take FIN-7101, MGMT-7500.

FIN-8501 Derivatives (3.00 cr.)

Covers the theory and practice of derivatives. Explains pricing, hedging, markets and institutions, and the regulatory environment of derivatives. Emphasizes financial and real options, forward and futures contracts, equity and index derivatives, foreign currency, commodity, and interest rate derivatives, swaps, and the recent expansion into trading of exotic options. Incorporates risk into the management of derivatives. Studies the organized and over-the-counter derivative markets and regulations. Equivalent to FIN-853. Prerequisite: take FIN-7501.

FIN-8530 Financial Markets (3.00 cr.)

Covers analysis of financial markets with emphasis on understanding and predicting interest rates and stock prices. Includes topics on structure and behavior of interest rates, flow of funds analysis, operation of security markets, portfolio policies of financial institutions, effect of monetary and fiscal policies of financial markets, capital market theory, and measurement of market efficiency. Equivalent to FIN-830. Prerequisite: take FIN-7101.

FIN-8901 Graduate Thesis/Project: (6.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of three faculty in the College of Business and Public Administration and approved by the dean. Students interested in pursuing a doctorate in business should select the thesis option. Equivalent to FIN-890.

Gender and Sexuality Studies

GNSX-5100 Introduction to Gender and Sexuality (3.00 cr.)

Provides through an interdisciplinary survey perspective, an introduction to gender and sexuality studies as a field. Introduces readings in several disciplines centered on the concept of gender and sexuality as a social reality.

Geography

GEOG-2100 Physical Geography (3.00 cr.)

Features investigations into the natural systems of the earth and their relationship to human activities. Includes examinations of the earth's energy, water, and nutrient balances and how these balances influence and are influenced by human activities. Examines soils, climates, hydrology, tectonic activity, landforms, and vegetation from a global as well as urban perspective. Emphasizes understanding the various natural systems and how they relate to the built environment. Equivalent to GEOG-310.

GEOG-2200 North American Geography (3.00 cr.)

Examines the spatial and environmental aspects of economic activity. Covers the economics of prehistory and continues through the origin of agriculture and cities. Investigates aspects of the global and regional economy, including urban systems, agricultural systems, forestry, mineral resources, and ocean resources. Equivalent to GEOG-320.

GEOG-2500 World Regional Geography (3.00 cr.)

This teleclass, produced by PBS and Annenberg/CPB, builds an understanding of geography by examining the eleven regions of the world, their characteristics, and their interconnections. Perspectives from physical, political, historical, economic, and cultural geography are used. It also provides an examination of the many geographic forces currently at work in shaping the complex features of the world's civilizations and environments and insights into a range of global geographic issues and global change. Equivalent to GEOG-405.

GEOG-4470 Human Geography (3.00 cr.)

Examines methods and approaches in human geography. Analyzes spatial perspective including the concepts of culture, landscape, region related to interpretation of human settlement patterns, social conflict, and social change. Equivalent to GEOG-447.

Geographical Information Systems

GIS-2100 Introduction to Geographical Information Systems (GIS) (3.00 cr.)

Geographical Information Systems (GIS) provides researchers, policy makers, and citizens with a powerful analytical framework for decision making. GIS has advanced the way in which many disciplines examine problems by incorporating components of space and time not previously considered. An introduction to the principles and theory behind geographic data and experience in the use of state-of-the-art GIS software and related equipment will be provided.

GIS-2200 Intermediate Geographical Information Systems (GIS) (3.00 cr.)

Principles of data acquisition, processing, and display through digital methods will be covered. Spatial structures and algorithms will be used as examples of current GIS applications. Vector-based GIS analysis and mapping will be examined from the physical, biological, and social sciences. Spatial querying, database management, site suitability analysis, proximity analysis, geo-database creation, and model building will be introduced. Prerequisite: take GIS-2100.

Health Administration

HLAD-3101 Introduction to Healthcare Management Strategies (3.00 cr.)

Reviews management theory and function and applies concepts to healthcare and other non-profit organizations. Reviews the functions of administrative and medical management emphasizing the interrelationships among planning, organizing, directing, and controlling for individual departments and for-profit and non-profit healthcare organizations. Equivalent to HLAD-301.

HLAD-3102 Principles of Healthcare Microeconomics (3.00 cr.)

Focuses on the principles of microeconomics which examine the basic fundamentals of the theory of the consumer, theory of the firm, market structures, resource markets, income distribution and poverty, and important issues of public choice, market failure, healthcare, and international economics. Introduces the theoretical and analytical framework at the introductory level of microeconomics that can be applied to healthcare. Equivalent to HLAD-302.

HLAD-3103 Basics of Healthcare Informatics (3.00 cr.)

Provides an overview of collection, storage, retrieval, communication, and optimal use of health related data, information, and knowledge. Covers introductory concepts of health systems analysis techniques, nature of computer applications in healthcare and problem-solving, and discusses the future of health information system technology. Includes an introduction to and use of database software in healthcare. Equivalent to HLAD-303.

HLAD-3104 Healthcare Statistics (3.00 cr.)

Provides a basic review of elementary statistics and intermediate algebra. Applies analysis to healthcare data. Covers required healthcare utilization statistics and analysis and its application to industry standards and current results. Includes utilization, productivity, use rates, financial ratios, and intensity of service analyses for a variety of healthcare organizations. Equivalent to HLAD-304.

HLAD-3105 Healthcare Organization (3.00 cr.)

Provides an understanding of how healthcare is organized in the United States and the way it is provided to consumers. Equivalent to HLAD-325.

HLAD-3106 Introduction to Epidemiology (3.00 cr.)

Presents use of descriptive and analytic epidemiology, include: classification of disease, definitions of incidence and prevalence, uses of rates, rate adjustment, outbreak investigation, study design, cohort studies, case-control studies, experimental studies, life tables, and screening. Equivalent to HLAD-335. Prerequisites: take HLAD-3103, HLAD-3104.

HLAD-3107 Medical Sociology (3.00 cr.)

This course applies sociological knowledge, concepts, and methodologies to healthcare processes for the purpose of enhancing the understanding of health administrators on the dynamics of interaction between patients and providers. In doing so, the course offers an overview of the diverse field of medical sociology from a theoretical and an applied perspective. Equivalent to HLAD-340. Prerequisites: take HLAD-3105, HLAD-3108.

HLAD-3108 Policy Politics in Healthcare (3.00 cr.)

Provides the student with theoretical tools required to understand local, state, and federal policies beginning with an appreciation of the policy process, policy analysis, healthcare ethics and its intersections with economics and political theory. Recent policy developments in healthcare are discussed from a political and ethical perspective.

HLAD-3109 Ethics in Healthcare Admin (3.00 cr.)

Presents some of the major ethical problems confronting society, the healthcare system, and the healthcare administrator. Each student will be encouraged to synthesize a personal professional philosophy to deal with the ethical dilemmas inherent in health services delivery.

HLAD-4001 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in health administration under the supervision of the full-time faculty. Equivalent to HLAD-470.

HLAD-4002 Internship (1.00-8.00 cr.)

Designed to provide health administration students with supervised practical experiences in applied settings. Equivalent to HLAD-480.

HLAD-4099 Health Administration Practicum (3.00 cr.)

Provides the student with a terminal experience integrating classroom learning and the field of practice. Reinforces and reviews competencies gained in health administration and gives students an opportunity to achieve professional growth and administrative skills. Equivalent to HLAD-490.

HLAD-4101 Healthcare Organizational Behavior (3.00 cr.)

Analyzes the behavior of people in healthcare organizations. Discusses organizational motivation, leadership, group behavior, communication, and decision-making for profit and non-profit healthcare organizations. Discusses the similarities and differences in various types of healthcare organizations. Equivalent to HLAD-401.

HLAD-4103 Legal Aspects of Healthcare (3.00 cr.)

Discusses legal implications and ramifications of conduct in health services administration. Introduces principles of administrative law that form the foundation of decision-making processes in the health services arena. Equivalent to HLAD-465.

HLAD-4104 Healthcare Economics (3.00 cr.)

Applies economic analysis to health and healthcare services. Examines the concept of health as human capital. Investigates special features of the supply, demand, distribution, and economic impact of healthcare delivery. Equivalent to HLAD-460.

HLAD-4105 Management in the Healthcare Setting (3.00 cr.)

Examines the management, environment, and personnel of diverse healthcare facilities. Emphasizes applying descriptive information to various operational situations and problems in specific healthcare departments and on general problems encountered by junior or mid-level managers. Equivalent to HLAD-455. Prerequisites: take HLAD-4101, HLAD-4103, HLAD-4104.

HLAD-4106 Healthcare Accounting (3.00 cr.)

Covers financial and managerial accounting concepts and their applications to healthcare organizations. Includes financial statement analysis, cost finding, and cost analysis. This course is also structured to prepare students for the long-term care administrators licensing examination. Equivalent to HLAD-502. Prerequisites: take HLAD-4101, HLAD-4103, HLAD-4104.

HLAD-4107 Healthcare Human Resource Management (3.00 cr.)

Focuses on human resource management, program, and policies. Addresses recruitment of health professionals, manpower requirements, staffing, training, development, examination of qualifications standards, performance appraisals, and employee morale. Examines methods of developing leadership in supervisory health managers, issues of wage and salary administration, and labor relations issues in healthcare. Equivalent to HLAD-503. Prerequisites: take HLAD-4103, HLAD-4901.

HLAD-4108 Health Planning (3.00 cr.)

Introduces health planning concepts, methods, and data sources useful in developing community and institutional health plans. Covers demographic and patient-specific data and concepts of epidemiology. Equivalent to HLAD-450. Prerequisites: take HLAD-4101, HLAD-4103, HLAD-4104.

HLAD-4901 Institutional Management for Healthcare Organizations (3.00 cr.)

Designed to be the capstone course for the bachelor of health administration. Discusses reading and research in the areas of healthcare, as well as investigation of administrative situations in healthcare settings. Equivalent to HLAD-468. Prerequisites: take HLAD-3104, HLAD-4103, HLAD-4105, HLAD-4107.

HLAD-5001 Current Topics in Health Administration (1.00-3.00 cr.)

Covers various topics relevant to current developments in the health administration field, such as managed care, reengineering, patient-centered care, TQM/CQI, disease management, budgeting, finance, personnel, planning, task analysis, team building, changing work force, healthcare paradigm shift, and many other topics. Equivalent to HLAD-582.

HLAD-5101 Introduction to Long-Term Care (3.00 cr.)

Provides a basic orientation to the long-term care continuum, including both nursing homes and noninstitutional alternatives, such as home health agencies and adult day care. Examines the long-term care needs of the chronically ill and disabled, and actual and proposed public policy responses to those needs. Equivalent to HLAD-520.

HLAD-5102 Nursing Home Administration (3.00 cr.)

Examines principles in the management of skilled nursing facilities and related institutions for the chronically ill and disabled. Explores issues in the regulation and reimbursement of nursing homes in Illinois. Equivalent to HLAD-525.

HLAD-5103 Introduction to Managed Care (3.00 cr.)

Provides an overview to managed care as it is evolving in the United States. Emphasis is placed on mainstream programs experiencing substantial success in the market place. Topics include the history of managed care, operating procedures, and techniques employed by managed care plans, and relationships with physicians, employers, and members. Equivalent to HLAD-530. Prerequisites: take HLAD-3105, MGMT-2100.

HLAD-6001 Health Administration Lecture Series (1.00-3.00 cr.)

Health practitioners discuss many of the issues and problems of the contemporary American healthcare delivery system. Major topics include the role of government, value and ethical considerations, the hospital and the consumer, and issues of manpower, financing, and quality of care. Equivalent to HLAD-630.

HLAD-7101 Introduction to Healthcare Organization (3.00 cr.)

This is a beginning interdisciplinary graduate course in healthcare organization and administration. The course deals conceptually and factually with the problems and issues of current healthcare delivery systems. The course is an introductory macroanalysis of the U.S. health care delivery systems. It consists of five major parts: a) determinants of health and healthcare services; b) organization of healthcare services; c) financing of healthcare services; d) coordination and control of these three systems; and finally, e) a synthesis: reorganization of healthcare services. The course is designed for healthcare administration students to achieve an understanding and knowledge of the current healthcare delivery systems to enable them to develop and implement appropriate current and future healthcare policies and programs. Equivalent to HLAD-700.

HLAD-7102 Community Health and Managerial Epidemiology (3.00 cr.)

Overviews population-based health issues and their administrative implications. Covers such topics as concepts of epidemiology, measurement of health and diseases, determinants of health, cultural and linguistically impacts on community health, and applications of epidemiology in health administration. Focuses on emerging trends and issues in disease patterns, diversity, community resource allocation, and improving and reforming the healthcare delivery system. Equivalent to HLAD-701. Prerequisite: take HLAD-3104.

HLAD-7103 Information Systems for Healthcare Managers (3.00 cr.)

Provides an introduction to computers used to manage and analyze healthcare information. This course includes introductory concepts of computer technology and management of health information systems, concepts of system analysis and problem-solving, and extensive hands-on experience with various microcomputer software packages. Equivalent to HLAD-702. Prerequisite: take MIS-2101.

HLAD-7104 Introduction to Health Services Research (3.00 cr.)

Introduces students to the field of health services research, which is defined as "a field of inquiry using quantitative or qualitative methodology to examine the impact of the organization, financing, and management of healthcare services on the access to, delivery, cost, outcomes, and quality of services." Topics to be examined include general concepts in the field, methodological strategies, and critiques of the existing body of research literature. Equivalent to HLAD-703.

HLAD-7105 Applied Research Methods for Health Administration (3.00 cr.)

Examines the application of research methods to the administrator's decision-making process. Topics covered include the relevance of research for policy decision-making; common measures and statistics used by health administrators; the application of various research methods to health administration; an introduction to computer statistical software packages; and an introduction to information systems. Equivalent to HLAD-705. Prerequisite: take STAT-4720.

HLAD-7106 Database Design and Administration of Healthcare System (3.00 cr.)

Structured Query Language (SQL) is the dominant language for database queries. Healthcare organizations have to store data in a SQL server for data processing. This course is not only designed to provide the core foundation for installing, managing, and supporting the SQL server, but also designed to help the student understand a compiled language for hospital file maintenance: TAL. Equivalent to HLAD-713. Prerequisite: take MIS-2101.

HLAD-7107 Economics of Health Administration (3.00 cr.)

Applies the theoretical principles of economic analysis to studying, evaluating, and understanding the health services sector of the economy. Provides an understanding of the economic forces, which act upon healthcare markets. Explores the importance of scarcity and incentives in the delivery of healthcare, allowing for the unique differences that characterize the healthcare sector. Equivalent to HLAD-715. Prerequisites: take HLAD-3102, HLAD-3104.

HLAD-7108 Healthcare Policy (3.00 cr.)

Enables the student to describe, analyze, evaluate, and apply basic policy approaches to both American and international healthcare issues. Presents students with implementation skills for ethically managing power relations in a turbulent healthcare marketplace. Equivalent to HLAD-718. Prerequisites: take HLAD-3108, HLAD-7102.

HLAD-7109 Healthcare Informatics (3.00 cr.)

Investigates the current status of informatics in health administration. Prepares students for the computer assisted management process of the future. Includes microcomputer applications, systems analysis and design, and computer selection strategies. Knowledge of basic computer science is desirable. Equivalent to HLAD-725. Prerequisites: take HLAD-7101, HLAD-7103, HLAD-7105.

HLAD-7110 Healthcare Financial Management (3.00 cr.)

Provides an overview of the primary facets of healthcare financial management. Includes such topics as budgeting, working capital management, intermediate reimbursement theory, financing indigent care, tax-exempt status, internal audit and control, and cost containment. Equivalent to HLAD-740. Prerequisites: take HLAD-4106, HLAD-7102.

HLAD-7111 Organizational Theories in Health Administration (3.00 cr.)

Studies organizational theories and behavior unique to effective administration of healthcare institutions. Views organizations as an open system that requires constant interaction with environment. Examines the relationships of input/structure, throughputs, outputs and external environment. Equivalent to HLAD-745. Prerequisite: take HLAD-3101.

HLAD-7112 Healthcare Management I (3.00 cr.)

Presents the major concepts and theories of healthcare management. Addresses the historical evolution of the healthcare management and examines how the historical development of healthcare institution is interwoven with current trends in healthcare administration. Discusses the management of health institutions from departmental level to system level. Equivalent to HLAD-755. Prerequisites: take HLAD-3101, HLAD-7109.

HLAD-8100 Health Information System Analysis and Design (3.00 cr.)

Specific focus will be on analysis, design, and implementation of health information systems. All stages of the systems development life-cycle will be considered. The course aims to provide a foundation in traditional structured analysis and design techniques, together with an introduction to object-oriented analysis and design concepts that are increasingly in use today. Equivalent to HLAD-801. Prerequisites: take CPSC-4578, HLAD-7103, HLAD-7106, HLAD-7109.

HLAD-8101 Quantitative Decision-Making for Health Administration (3.00 cr.)

This course emphasizes the conceptual framework and the practical application of various decision-making techniques relevant to the health administration field. The focus of the course is on developing sophisticated decision-making models utilizing available computer software that enable the administrator to achieve organizational goals in an efficient manner. Equivalent to HLAD-806. Prerequisite: take HLAD-7109.

HLAD-8102 Healthcare Program Planning and Evaluation (3.00 cr.)

Study of specific topics in planning and evaluating healthcare programs. Special attention to the concept of program, program planning, analysis of evaluation system models, measurement, advantages and disadvantages of internal and external evaluation, and analysis and critique of published evaluations. Equivalent to HLAD-820. Prerequisite: take HLAD-7109.

HLAD-8103 Integrated Performance Improvement for Healthcare Organizations (3.00 cr.)

Presents the principal concepts and practice of integrated performance improvement (IPI) for healthcare organizations through readings, case studies, and analysis of actual institutional performance improvement programs. The course addresses the topics of reengineering, service improvement, quality improvement, JCAHO accreditation standards, patient satisfaction, TQM culture, teamwork, and case management among others. The course includes a project documenting the quality program of a specific healthcare institution. Equivalent to HLAD-823. Prerequisite: take HLAD-7112.

HLAD-8104 Medical Records, Information Security, and the Law (3.00 cr.)

This course, from clinical, legal, and technical aspects, introduces students to concepts, strategies, and techniques of how to obtain, maintain, and protect medical information, especially the computer-based medical information system. Equivalent to HLAD-833. Prerequisites: take CPSC-4578, HLAD-7103, HLAD-7106, HLAD-7109.

HLAD-8105 Healthcare Human Resource Management (3.00 cr.)

Focuses on human resource management, programs, and policies. Addresses recruitment of health professionals, manpower requirements, staffing, training, development, examination of qualifications standards, performance appraisals, and employee morale. Examines methods of developing leadership in supervisory health managers, issues of compensation administration, and specific labor and HRM law governing healthcare institutions. Applies TQM and ethics theories to the HRM process. Equivalent to HLAD-835. Prerequisite: take HLAD-7112.

HLAD-8106 Healthcare Law (3.00 cr.)

Focuses on corporate administrative and regulatory law significant for health services administration. Examines such issues as informed consent, joint ventures, mergers and acquisitions, medical staff issues, and liability. Equivalent to HLAD-837. Prerequisites: take HLAD-7101, HLAD-7102.

HLAD-8107 Healthcare: Financial Management II (3.00 cr.)

Focuses on theory and applications for such topics as capital financing, managed care contracting, physician contracts, equity financing, and performance reporting and analysis for specific healthcare entities. Equivalent to HLAD-846. Prerequisite: take HLAD-7110.

HLAD-8108 Strategic Planning and Marketing for Health Administration (3.00 cr.)

Covers the strategic planning process in the competitive healthcare field, including alternative delivery systems. Focuses on definition of mission, external analysis, goal achievement, and generation of alternatives and their selection. Marketing of specific healthcare entities, theories, and practices are discussed. Equivalent to HLAD-850. Prerequisites: take HLAD-7110, HLAD-8101, HLAD-8102, HLAD-8105.

HLAD-8109 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in health administration under the supervision of the faculty. Equivalent to HLAD-870.

HLAD-8110 Internship (1.00-8.00 cr.)

Period of structured, preceptor-directed experience in the practice of health administration in a setting appropriate to the student's career goals. The course is taken after completion of all other course work, but before conferring of the degree. Equivalent to HLAD-880.

HLAD-8111 Graduate Thesis/Project: (1.00-8.00 cr.)

Provides the health administration student an opportunity to synthesize graduate course work by developing and completing a thesis or project specific to the student's interests in health administration. Equivalent to HLAD-890.

HLAD-8901 Healthcare Management II (3.00 cr.)

Capstone course in the graduate degree in Health Administration. Focuses on the effective administration of healthcare facilities and systems. Covers the administrator's role in the application of such areas as finance, law, quantitative methods, human resource management, administrator/ medical staff relations, and ethics. Equivalent to HLAD-855. Prerequisites: take HLAD-8101, HLAD-8102, HLAD-8103, HLAD-8104, HLAD-8105, HLAD-8106, HLAD-8107.

HLAD-8902 Health Administration Field Experience (3.00 cr.)

Students apply theories and principles of classroom learning in healthcare facility. The field experiences provide opportunities for development, integration, and reinforcement of competence. Equivalent to HLAD-865. Prerequisite: take HLAD-8901.

Health Sciences

HLSC-3100 Contemporary Health Issues (3.00 cr.)

Offered in Internet-based distance learning format. Identifies and examines major health issues of our time. Designed to counteract apathy, dispel myths, and provide accurate information upon which to make decisions affecting individual and social health. Presents a broad overview of programs and policies in a historical context. Basic health concepts and terminology are presented for non-health care, as well as the health care track student. Equivalent to HLSC-305.

HLSC-3150 Introduction to Community Health (3.00 cr.)

Reviews the latest trends in community health in an effort to address health issues facing today's communities. With an emphasis on developing the knowledge and skills necessary for a career in health education, this course covers topics such as epidemiology, community organization, program planning, minority health, healthcare, mental health, environmental health, drugs, safety, and occupational health. Equivalent to HLSC-330.

HLSC-3200 Introduction to Environmental Health (3.00 cr.)

This course examines health issues, scientific understanding of causes, and possible future approaches to control environmental health problems in industrialized and developing countries. Topics include public health and health care responses to environmental pollutants, physical, chemical, and biological agents of environmental contamination. This course also covers vectors for dissemination (air, water, soil); solid hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific base for policy decisions; and emerging global environmental health problems. Equivalent to HLSC-340.

HLSC-3300 Cultural Attunement in Healthcare (3.00 cr.)

This course provides students with an understanding of how culture operates as a critical variable in planning educational, health promotion, and disease prevention strategies. Students will develop an understanding of what constitutes cultural attunement, and cultural sensitivity through issues pertinent to the design of culturally appropriate curriculum for health promotion strategies, prevention programs in community health, and service delivery systems. Equivalent to HLSC-421.

HLSC-3400 Principles of Aging and Physical Activity (3.00 cr.)

This course is designed to examine the aging process, and the physical and emotional aspects of aging well. Students will explore socio-demographics, health behavior and exercise needs of older adults, as well as become engaged in lessons of the emotional needs and as well as life course barriers to better aging. Equivalent to HLSC-344.

HLSC-4100 Introduction to Health Promotion (3.00 cr.)

Presents models for health promotion programming and introduces skills involved in planning, implementing, and evaluating health promotion programs. Emphasis is on motivational and behavioral techniques to enhance change and on implementing cost-effective health promotion programs in a workplace setting. Sample vignettes and case studies provide practical and realistic practice in the application of health promotion concepts. Equivalent to HLSC-505.

HLSC-4200 Comparative Complementary and Alternative Medicine (3.00 cr.)

Compares the history and paradigm of complementary and alternative medicine (CAM) with that of conventional medicine. Reviews the major domains of CAM research. Evaluates the research on the effectiveness of CAM. Equivalent to HLSC-420.

HLSC-4300 Health and Wellness Programs (3.00 cr.)

This course will emphasize strategies for the development of program content, overall planning, implementation, and evaluation of health promotion programs in community and workplace settings. Equivalent to HLSC-455.

HLSC-4400 Medical Terminology (1.00 cr.)

This is an independent, self-paced course that is open to all students interested in gaining knowledge of medical terminology. A programmed text and computer-based instruction is utilized. This course is a prerequisite for admission to the Masters of Occupational Therapy program. An online option is available. Equivalent to HLSC-400.

HLSC-4470 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in the health sciences under the supervision of the faculty. Equivalent to HLSC-470.

HLSC-4890 Internship (1.00-8.00 cr.)

Designed to provide students in the health sciences with supervised practical experiences in applied settings. Equivalent to HLSC-480.

HLSC-5001 Current Topics (1.00-3.00 cr.)

Explores specific topics in the area of health science and related fields. Topics vary and range from practical application to current conceptual areas and theories. May be repeated for credit. Equivalent to HLSC-502.

HLSC-5100 Nutritional Pathways (3.00 cr.)

Identifies cellular and nutrient make-up of the body as it relates to the body's systems and the nutritional life cycle. Examines how socioeconomic factors enhance a person's food choices and how diet, nutritional guidelines, and physical exercise decrease the risk of disease. Hazards in our food supply and issues regarding hunger and the global environment will also be presented. Equivalent to HLSC-500.

HLSC-5101 HIV: The Epidemic: Issues for Healthcare Providers, Educators, Employers, and Consumers (3.00 cr.)

Provides an overview of the HIV/AIDS epidemic including changes in the pattern of occurrence, signs and symptoms, classifications of the disease, recognition of the course of the disease, and strategies for prevention. Equivalent to HLSC-501.

HLSC-5200 Health Professions Education Instruction (3.00 cr.)

Designed to introduce health professions students to the skills and processes involved in health professions education in both clinical and didactic settings. Develops skills in planning, delivering, and evaluating health professions education programs. Equivalent to HLPE-315.

HLSC-5512 Changing Health Behaviors (3.00 cr.)

Examines the relationship between personal behaviors and health. Addresses skills, strategies, and models that can be used to help people make health-enhancing behavior changes. Equivalent to ADDS-512.

HLSC-6300 School Health Programs (3.00 cr.)

Presents an overview of the principles, philosophy, and development of school health programs in the U.S. Emphasizes the concepts of "healthful school living" and community participation in school health programs. Focuses on developing a team framework among teachers, health service personnel, parents, and pupils. Equivalent to HLPE-802.

HLSC-6310 Assessment of Health Instruction (3.00 cr.)

Examines assessment procedures employed in health education and allied health training programs. Emphasizes the development of valid and reliable instruments to assess health behaviors, attitudes, and skills. Equivalent to HLPE-815.

HLSC-6320 Continuing Education in Health (3.00 cr.)

Focuses on how the rapid pace of new discoveries in health, disease, treatment, and rehabilitation makes continuing education essential for everyone working in health fields. Develops skills in planning, delivering, and evaluating continuing education in health. Emphasis on developing change agent skills, motivation of others to update their knowledge and skills, involving colleagues in continuing education activities. Equivalent to HLPE-820.

HLSC-7500 Interprofessional Collaboration (3.00 cr.)

Examines effective communication and processing skills that will assist professionals from various healthcare disciplines to develop understanding and collaboration. Emphasis is on the use of effective techniques for collaboration and interdisciplinary team process resulting in valuing each professional's expertise and overcoming barriers to effective and efficient patient/client care. Equivalent to HLSC-750.

HLSC-8050 Special Topics in Health Sciences (1.00-4.00 cr.)

Examines advanced specialized interdisciplinary topics in health sciences. Topics will vary. May be repeated for credit. Individual reading, research, and/or project in the health sciences under the supervision of the faculty. Equivalent to HLSC-850.

HLSC-8300 Epidemiology (3.00 cr.)

Advanced health concept course covering human ecology of diseases in groups and communities, consumer health sources in dealing with epidemiology problems, indices of community health and their usefulness to health centers, schools, and community health programs, and promotion of healthful living on a group and community basis. Equivalent to HLSC-830.

HLSC-8350 Responsible Conduct of Research (3.00 cr.)

Provides content related issues in research and scientific integrity and the responsible conduct of research, includes policies and procedures related to scientific misconduct, conflicts of interest, human subjects' protection in biomedical research, intellectual property, authorship and peer review, and ethical issues in research. Equivalent to HLSC-840.

HLSC-8400 Information Management Nursing Decision Support (3.00 cr.)

Explores the use of computerized systems in nursing administration, education, teaching strategies, research, and clinical practices. Emphasizes information technology; an understanding of computer technology; and social, ethical, and legal issues associated with information technology in a healthcare environment. Equivalent to HLSC-841.

HLSC-8640 Exploring Interdisciplinary Team Process and Leadership (3.00 cr.)

This course will bring together graduate students from many disciplines to learn effective communication and processing skills that will allow them to develop the understanding necessary for effective collaboration. This course will use communication and team building skills to demonstrate the value of interdisciplinary approaches. Such an interdisciplinary approach will show students effective techniques for valuing and educating client/customers, identifying and overcoming barriers to effective customer/client service, and leading to outcomes desired by the client/customer. Equivalent to HLSC-864.

HLSC-8700 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in the health sciences under the supervision of the faculty. Equivalent to HLSC-870.

HLSC-8750 Healthcare Organizational Behavior (3.00 cr.)

Explores the behavior of people within healthcare organizations in view of influential factors related to individuals, work groups, information groups, and the larger organized system. Analyzes management strategies for implementing effective efficient structures and processes in healthcare organizations. Equivalent to HLSC-875.

HLSC-8800 Internship (1.00-8.00 cr.)

Designed to provide the health sciences student with supervised practical experiences in applied settings. Equivalent to HLSC-880.

HLSC-8900 Graduate Thesis/Project (1.00-8.00 cr.)

Provides the health sciences student an opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in the health sciences. Equivalent to HLSC-890.

HLSC-9200 Healthcare Security and Disaster Preparedness (3.00 cr.)

Focuses on the assessment of health needs of specific communities when compromised by events impacting homeland security. Provides strategies for planning and implementing plans developed in collaboration with local governmental agencies, public and private health sector providers, and county and state health agencies. Equivalent to HLSC-891.

Higher Education Administration

See Education - Higher Education Administration

History

HIST-1110 U.S. History I (3.00 cr.)

Provides a historical examination of the United States from the founding of the colonies through Reconstruction with special emphasis on connections between historical transformations and issues of race, class, gender, religion, nation-building, economic development and modernization, and the sectional conflict. Equivalent to HIST-311, HIST-3110.

HIST-1120 U.S. History II (3.00 cr.)

Provides a historical examination of the United States from the Civil War through the present with special emphasis on connections between historical transformations and issues of race, class, gender, industrialization, immigration, urbanization, reform/social movements, and World Wars I and II. Equivalent to HIST-312, HIST-3120.

HIST-2700 World History to 1500 (3.00 cr.)

Provides a conceptual and comparative approach to the history of world civilizations prior to 1500, societies and cultures that challenges persistent Eurocentric assumptions and worldviews. Asia, Africa, the Americas, and the Europe will be analyzed in their diversity and in relation to one another. Topics include religion, language, culture, commerce, migration, science, technology, ecology, and identity information.

HIST-2710 World History Since 1500 (3.00 cr.)

Provides a conceptual and comparative approach to the history of world civilizations, societies, and cultures since 1500 that challenges persistent Eurocentric assumptions and worldviews. Asia, Africa, the Americas, and Europe will be analyzed in relation to one another. Topics include religion, language, culture, commerce, migration, science, technology, ecology, identity formation, imperialism, identity formation, and contemporary world-historical change.

HIST-3100 U.S. Economic History (3.00 cr.)

Examines the development of the American economy with special emphasis on the process of modernization and its effect on agriculture, commerce-industry, worker-employer relationships, and the value system of the people. Equivalent to HIST-310.

HIST-3101 Key Issues in State and Federal Constitutional Government (3.00 cr.)

Provides a practical and mature picture of U.S. Constitutional government in its own right as well as how it relates to the Illinois State Constitution. Factual knowledge about the contents of the U.S. Constitution is a baseline requirement of the course. Equivalent to HIST-301.

HIST-4000 Public History and Civic Engagement (3.00 cr.)

Introduces and examines sources and methods used in public history. Students will conduct specific research projects focused on civic engagement, local, and/or community history engaging with public and private institutions in the region.

HIST-4100 Beyond the Dream: Current Black Social Issues (3.00 cr.)

Examines issues in education, politics, business, economics, social life, and the arts as they relate to developments in the Black community since the Civil Rights Era. Equivalent to HIST-5100, HIST-500.

HIST-4101 Topics in Global History (3.00 cr.)

This course number is used for courses dedicated to in-depth study of specific topics in United States history. Students may take this course multiple times for credit when a different topic is featured. Topics are indicated in the subtitle of the course name and will be announced in advance.

HIST-4110 The History of Illinois and Its Constitution (3.00 cr.)

Surveys the political, constitutional, and social history of the State of Illinois from 1700 to the present. Equivalent to HIST-501.

HIST-4115 Modern African History (3.00 cr.)

Surveys the significant themes in African history since 1800, examining pre-colonial African societies, European mercantilism, colonial political economies, resistance and the rise of African nationalism, and questions concerning liberation and revolution in Africa today. Historical texts, novels, films, and guest speakers will be used to promote a deeper understanding of the continent, its people, and their struggles. Equivalent to HIST-505.

HIST-4150 Modern U.S. History: 1900-1945 (3.00 cr.)

Examines U.S. domestic history and the role of the United States in world affairs from 1900-1945, including progressivism, imperialism, the New Deal, and World War II. Equivalent to HIST-515.

HIST-4160 Issues in Modern U.S. History (3.00 cr.)

The approach of this course is inclusive and focuses on the issues of the Post-World War II era and beyond. It provides a context for in-depth study of more recent events, with an emphasis on content, methodology, and potential applications of U.S. history. Equivalent to HIST-5160, HIST-516. Prerequisites: take HIST-3100, HIST-3110.

HIST-4200 American Urban History (3.00 cr.)

Presents a historical examination of the process of modernization and its effect on the American city and people. Emphasizes race, class, gender, migration and mobility, family roles, machine politics, suburbanization, and various reform movements. Equivalent to HIST-520.

HIST-4250 Topics in U.S. History (3.00 cr.)

This course number is used for courses dedicated to in-depth study of specific topics in United States history. Students may take this course multiple times for credit when a different topic is featured. Topics are indicated in the subtitle of the course name and will be announced in advance.

HIST-4300 Modern Middle Eastern History (3.00 cr.)

Examines Islamic civilization since the age of European expansion into the region. Topics covered include: imperialism, westernization, nationalism, and modernization; regions covered include Arab countries, Israel, Iran, and Turkey. Equivalent to HIST-530.

HIST-4330 Ancient Chinese History (3.00 cr.)

Examines Chinese history from 221 B.C.E. to 1840. Equivalent to HIST-533.

HIST-4340 Modern Chinese History (3.00 cr.)

Examines the period of Chinese history between 1840 and the present, including the cultural confrontation between the expanding western civilization of international trade and warfare and the persistent Chinese civilization of agriculture and bureaucracy. Considers the fundamental transformation of the traditional China into the modern China of today. Equivalent to HIST-534.

HIST-4400 Black Experience in the U.S. (3.00 cr.)

Surveys Black experience from 1500-1941. Emphasizes the various aspects of slavery, the Civil War, reconstruction, and the Black experience during World War I and World War II periods. For students of politics, mass communications, economics, public policy, etc. and those simply interested in America's recent past. Equivalent to HIST-540.

HIST-4410 Black Women in American History (3.00 cr.)

Examines the history of the Black woman from enslavement to 1970. Emphasizes the role the Black woman has played in the Black struggle and her contributions to their survival. Equivalent to HIST-541.

HIST-4420 Caribbean History (3.00 cr.)

Studies comparative colonial patterns in the Caribbean. Emphasizes the development of slave populations, social systems, and the concept of hierarchy in the Caribbean. Equivalent to HIST-542.

HIST-4440 History of Civil Rights (3.00 cr.)

Examines the struggle to secure civil rights in the United States. Emphasizes protests, court decisions, and legislation covering the civil rights areas of employment, education, housing, voting, public accommodations, and marriage since 1953. Equivalent to HIST-544.

HIST-4450 African Slavery in America (3.00 cr.)

Examines the historical events and regional distinctions in enslavement, institutionalization of North American slavery, development of slave cultures, formation of free communities of color, rise of resistance movements and struggles for freedom and citizenship, and origins and outcomes of the Civil War and Reconstruction, emphasizing the actions and experiences of people of African descent. Equivalent to HIST-545.

HIST-4460 Latin America to Independence (3.00 cr.)

Examines the historical, political, economic, and cultural processes of Spanish and Portuguese America to the era of independence. Areas covered will include pre-Columbian civilizations, exploration and conquest, colonial society, slavery, and the development of the divisions which led to independence.

HIST-4470 Latin America from Independence (3.00 cr.)

Examines the historical, political, economic, and cultural processes of South and Central America from the period of independence to the present. Major topics include the wars of independence, social transformation in the 19th and 20th centuries, the developing role of the nation-state, underdevelopment in the global economic order, and the role of the Cold War in shaping politics and society. Equivalent to HIST-547. Prerequisites: take HIST-3100, SOC-3100.

HIST-4480 Pre-Colonial African History (3.00 cr.)

Explores the history of African people and their various cultural differences in a pre-colonial context. Focuses on correcting misconceptions of Africa and the Africans through readings from a wide selection of publications. Equivalent to HIST-548.

HIST-4500 Women in American History (3.00 cr.)

Examines the history of American women from the Colonial period to the present with special emphasis on how and in what ways the status of women has changed. Equivalent to HIST-550.

HIST-4510 Women in World History (3.00 cr.)

Provides a broad overview of women's experiences in history, from hunter-gatherer societies to the present.

HIST-4650 Modern European History (3.00 cr.)

Examines the political, economic, social, cultural, and diplomatic history of modern Europe. Addresses the themes of enlightenment, revolution, industrialization, nationalism, imperialism, totalitarianism, the world wars, the cold war, and the geo-political trends toward unification. Equivalent to HIST-565.

HIST-4670 Russia in the 20th Century (3.00 cr.)

Examines the history of Russia during the 20th century. Topics include the fall of czarism, the Communist Revolution, the Stalin era, World War II, the Cold War, the collapse of the Soviet Union, and the post-Cold War period. Equivalent to HIST-567.

HIST-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in education under the supervision of the faculty. Equivalent to HIST-470.

HIST-4800 Internship in History (1.00-4.00 cr.)

Consists of field experience with a history-related business or public agency. The student will work under the supervision of an individual at the internship agency and a member of the history faculty.

HIST-4910 Senior Capstone I: Methods (3.00 cr.)

First half of the senior capstone experience. Emphasis is on the principles of historical research, the organization of materials, and the discussion of various writing styles. Students work closely with the instructor throughout the semester. Note: Restricted to History majors in the senior/final year of the degree or by permission of instructor.

HIST-4920 Senior Capstone II: Thesis (3.00 cr.)

Second half of the senior capstone experience. Focuses on writing and presenting a major history-based paper resulting from extensive research in primary sources during HIST-4910. Students work closely with the instructor throughout the semester. Must be taken in the senior/final year of the degree or by permission of the instructor.

HIST-5250 Readings in American History (3.00 cr.)

Student selects a topic in American history from a prescribed list, reads a number of designated works on that topic, and answers several essay-type final examination questions. Equivalent to HIST-525.

HIST-6100 Beyond the Dream (3.00 cr.)

Examines issues in education, politics, business, economics, social life, and arts as they relate to developments in the Black community since the Civil Rights era. Equivalent to HIST-5100, HIST-500.

HIST-6400 Black Experience in The U.S. (3.00 cr.)

Surveys black experience from 1500-1941. Emphasizes the various aspects of slavery, the Civil War, reconstruction, and the black experience during World War I and World War II periods. Equivalent to HIST-540.

HIST-6410 Black Women in American History (3.00 cr.)

A socio-historical study of the black woman from slavery to 1970. Emphasizing an examination of the role the black woman has played in the black struggle and her contributions to their survival. Equivalent to HIST-541.

HIST-6440 History of Civil Rights (3.00 cr.)

Offered in both lecture and televised formats. Examines the black struggle to secure human and civil rights in the United States. Black protest, court decisions, and legislation after 1953 are emphasized. Equivalent to HIST-544.

HIST-6450 African Slavery in America (3.00 cr.)

An advanced survey of the traditional interpretations of African slavery in America and an attempt to assess them in the light of contemporary studies. Equivalent to HIST-545.

HIST-6500 Women in American History (3.00 cr.)

Examines the history of American women from the Colonial period to the present with special emphasis on how and in what ways the status of women has changed. Equivalent to HIST-550.

HIST-7200 Philosophy of History (3.00 cr.)

Deals with patterns in the history of mankind. Explores nature of historical change, value, purpose, and meaning of various historical phases. Equivalent to HIST-720.

HIST-7800 Local History: Resources and Methods (3.00 cr.)

An examination of basic resources and methods for local and community history. Students will be involved with specific research projects. Equivalent to HIST-780.

HIST-8300 Graduate Seminar in Historical Studies (3.00 cr.)

Examines the nature of history by reading and evaluating two or more designated works on selected topics in American history. Equivalent to HIST-830.

HIST-8400 Research in African-American History (3.00 cr.)

Addresses serious research upon significant topics and issues related to the black experience in the United States and Western hemisphere. Equivalent to HIST-840.

HIST-8700 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in history under the supervision of the faculty. Equivalent to HIST-870.

Honors

HONS-4900 Honors Seminar (3.00 cr.)

Explores varying topical themes from an interdisciplinary perspective. Integrates critical thinking and practical problem-solving skills from an array of different disciplines and perspectives, contributing to interdisciplinary discourse. Equivalent to HONS-490.

Human Performance - Training

HPT-5100 Training Topics (1.00-3.00 cr.)

Offers study in various topics as applied to the training field. Subject matter may include stand-up training techniques, identifying and analyzing performance problems, examining the role of the computer in the training field, and television and its use in training. Equivalent to HPT-522.

HPT-6100 Introduction to Human Performance and Training (3.00 cr.)

This course enables students to analyze the field of educational technology, human resource development, instructional development, and training. Includes what professionals do, definitions, associations, periodicals, current issues, and self-assessment on competencies. Course requirements include joining a professional association related to the field. Equivalent to HPT-510.

HPT-6150 Introduction to Human Performance and Training Technologies (3.00 cr.)

Enables students to learn how to use a variety of computer software packages and other computer-related technologies that aid instructional designers. Equivalent to HPT-755.

HPT-6200 Training Product Design (3.00 cr.)

Students design, produce, and evaluate a half-hour instructional product. Includes goal analysis, learner entry characteristics, behavioral objectives, criterion-referenced tests, instructional strategy, media selection, prototype production, prototype tryout, and revision. Equivalent to HPT-520.

HPT-7100 Principles of Message Design (3.00 cr.)

Applies principles of message design to instructional strategies, media selection, and materials specifications. Emphasizes perception, memory, attitude change, adult learning, and text design. Equivalent to HPT-820. Prerequisites: take HPT-6100, HPT-6200.

HPT-7150 Project Management in Human Performance and Training (3.00 cr.)

Examines role of project management in organizations. Emphasizes defining the project, developing time management network, estimating efforts and costs, scheduling resources, writing project plans, and tracking projects. Equivalent to HPT-858. Prerequisite: take HPT-7200.

HPT-7170 Seminar: Human Performance and Training in Business (1.00 cr.)

Enables students to analyze how the business and industry environment is affected by the bottom line profit motive and how instructional and training techniques must be modified and adapted to that context. Analyzes the roles each professional plays in the development of training/HRD programs in a business and industry environment. Equivalent to HPT-860.

HPT-7190 Training Techniques (3.00 cr.)

Enables students to conduct instructor-led training sessions, including following predesigned instructor roles and tasks, developing lesson plans, applying appropriate training techniques for individual and group situations, and selecting and using media in training presentations. Equivalent to HPT-815.

HPT-7200 Needs/Task Analysis in Human Performance and Training (3.00 cr.)

Enables students to complete a thorough front-end analysis, including needs, environmental, and task analysis in order to determine performance gaps and how to close those gaps by suggesting various types of interventions. Equivalent to HPT-810. Prerequisite: take HPT-6200.

HPT-7260 Scriptwriting for Instruction and Training (3.00 cr.)

Students design and develop a variety of scripts for instructional and training products, including audio, video, workbooks, and classroom presentations. Includes combining instructional development skills with principles of message design, script writing formats, and client specifications. Equivalent to HPT-821. Prerequisites: take HPT-6200, HPT-7100 and take HPT-7200 or HPT-7190.

HPT-7300 Evaluation/Cost Benefit Analysis in Human Performance and Training (3.00 cr.)

Examines traditional and contemporary training evaluation models in order to evaluate real training products by developing reliable and valid measures that assess the success of the training in terms of participants' reactions, changes in self-efficacy and attitudes, behavioral transfers, and returns-on-investment. Equivalent to HPT-847. Prerequisite: take HPT-7200.

HPT-7400 Solving Performance Problems (3.00 cr.)

Enables students to identify and analyze problems in organizations that are performance rather than training-based. Focuses on information, resource, and incentive solutions to these problems. Students apply performance engineering theory to a real situation and write a report identifying the problems and proposing solutions. Equivalent to HPT-852. Prerequisite: take HPT-7200.

HPT-7450 Performance in Organizations (3.00 cr.)

This course provides a practical framework for understanding how components in an organization interrelate and how that relation affects performance analysis and improvement. Equivalent to HPT-861.

HPT-8200 Consulting Teamwork in Human Performance and Training (3.00 cr.)

Student works as a member of an instructional development team to develop and evaluate a training package. Includes working closely with subject matter experts. Equivalent to HPT-856. Prerequisite: take HPT-7200.

HPT-8250 Research in Human Performance and Training (3.00 cr.)

This course will enable students to research and evaluate topics in instructional and training technology. Equivalent to HPT-825.

HPT-8600 Advanced Field Project (2.00 cr.)

Provides human performance and training students with opportunities to apply specific career skills/interests in a business, industrial, medical, or educational setting. Equivalent to HPT-865.

HPT-8700 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in human performance and training under the supervision of the faculty. Equivalent to HPT-870.

HPT-8800 Internship (1.00-4.00 cr.)

Designed to provide human performance and training students with supervised practical experiences in applied settings. Equivalent to HPT-880.

HPT-8981 Human Performance and Training Master's Project I (2.00 cr.)

Includes design of a project in a real setting, including proposal and appropriate design components. Covers synthesis and application of theory and advanced methods learned in the curriculum. Equivalent to HPT-891.

HPT-8982 Human Performance and Training Master's Project II (2.00 cr.)

Further development of synthesis and application of methods begun in HPT-8981. Equivalent to HPT-892. Prerequisite: take HPT-8981.

Independent Film and Digital Imaging

IFDI-4730 Directing Drama for Film and Television (3.00 cr.)

The art and craft of directing dramatic film and television productions, including exercises in critical viewing, the drafting of shot lists and storyboards. Understanding director's role such as blocking actors, shot composition, and continuity directing.

IFDI-5000 Topics in Independent Film and Digital Imaging (3.00 cr.)

Introduces students to the basics and fundamentals of web design in order to create, develop and design efficient, functional and attractive websites for visual artists (painters, photographers, digital designers, etc.). Through the creation of multiple website components and projects, the class will culminate in the creation of students' personal professional websites specifically targeting intended audiences. Equivalent to IFDI-500.

IFDI-5070 Media Workshop (3.00 cr.)

Discusses entire digital filmmaking process including pre-production, production and postproduction. Requires students to complete a group project as a director, DP, gaffer, production manager, production designer, editor, sound designer by the end of the semester. Equivalent to IFDI-570. Prerequisite: take IFDI-5702.

IFDI-5410 History of Photography (3.00 cr.)

Surveys significant events, movements, and practitioners in the history of photography from 1826 to the 1960's. Discusses both technical and aesthetic issues, as they pertain to the use of photography as an expressive medium in artistic, social, and cultural contexts. Equivalent to IFDI-541.

IFDI-5420 Film and TV Documentary (3.00 cr.)

Examines style and influence of key documentary filmmakers. Identifies film techniques used to document events. Analyzes issues in documentary filmmaking. Describes effects documentary film has on perception of events and issues. Equivalent to IFDI-542.

IFDI-5444 Digital Photographic Imaging (3.00 cr.)

In this introductory course, students will receive hands on training in Adobe Photoshop CS3 software to learn the basic concepts, methodologies and problem solving strategies of the digital darkroom. The use of digital cameras and scanners as imaging devices will be explored, as well as the limitations and possibilities of Digital Photography as compared to traditional film-based imaging. Equivalent to IFDI-544. Prerequisite: take ART-3301.

IFDI-5460 Advanced Video Editing (3.00 cr.)

Advanced techniques of non-linear video editing. Aesthetics and techniques of editing for film and documentary. Experimentation with special effects in motion graphics. Mastering of the final project to DVD or streaming video. Equivalent to IFDI-546. Prerequisite: take MCOM-4734 or MCOM-6734.

IFDI-5490 Photography: Combined Color Processing (3.00 cr.)

This course builds and continues upon the foundations of photography that students have learned in previous photo courses. Working in the medium of color photography, students will be challenged to explore their own unique photographic voice through a variety of assignments and through group critiques. Students will also master the theory and technical aspects of color photography. Equivalent to IFDI-549. Prerequisites: take ART-3325, ART-3301.

IFDI-5540 Documentary Photography (3.00 cr.)

Covers a hands-on training in ADOBE PHOTOSHOP software to learn the basic concepts, methodologies, and problem solving strategies of the digital darkroom. Explores the use of digital cameras and scanners as imaging devices, as well as the limitations and possibilities of digital photography compared to traditional film based imaging. Equivalent to IFDI-554.

IFDI-5702 Digital Film Production (3.00 cr.)

Discusses entire digital filmmaking process for short film (narrative and experimental) including pre-production, production, and post-production. Requires students to complete individual projects as directors by the end of the term. Equivalent to IFDI-502. Prerequisite: take MCOM-4740.

IFDI-5709 Electronic Drawing and Design (3.00 cr.)

Focuses on the creative potential of computer graphics in art and design. Students work with PC and Macintosh computers, experimenting with a variety of imaging techniques. Equivalent to IFDI-509. Prerequisite: take ART-3325.

IFDI-5720 Audio Production (4.00 cr.)

Theories and techniques of production sound and audio post-production for film and video production, especially digital video production such as documentary, drama and studio show. Experimentation with different situation in production sound. Sound post-production including sound design and mixing on a non-linear digital sound editing system. Equivalent to IFDI-520. Prerequisites: take MCOM-4740, IFDI-5702.

IFDI-5731 Screenwriting (3.00 cr.)

Provides an introduction to writing for the screen through critical analysis and creative action. Equivalent to IFDI-531. Prerequisite: take MCOM-4740.

IFDI-5734 Video Production Editing (3.00 cr.)

Theories and techniques of non-linear digital video editing. Aesthetics and techniques of editing for film and documentary. Equivalent to IFDI-534. Prerequisite: take MCOM-4740.

IFDI-5735 Documentary Filmmaking (3.00 cr.)

Considers non-studio production using portable digital video equipment. Provides practical exercises in the development and production of independent broadcast documentaries. Equivalent to IFDI-535. Prerequisite: take MCOM-4740.

IFDI-5769 Acting for Independent Film (3.00 cr.)

The practices of independent film as they relate to the actor and performance. Includes independent film scene study and exercises in performance.

IFDI-5777 Cinematography (3.00 cr.)

The art and techniques of Cinematography as they relate to applied camera operation and lighting. The principles of the image making process, including still and motion picture photography. This course can be repeated with additional subjects. Equivalent to IFDI-577. Prerequisites: take IFDI-5702, IFDI-5735.

IFDI-6070 Graduate Media Workshop (3.00 cr.)

Create a digital short film project as core role. Prerequisite: take MCOM-5702 or IFDI-5702.

IFDI-6565 3D Modeling (3.00 cr.)

Use industry standard animation software to construct detailed computer based 3D models. Explore the process of creating an environment. Prop a character with several surface editing techniques. Apply translate, rotate, and scale tools to manipulate the geometric components while learning how to create materials, texture maps, cameras and lighting to create desired mood and atmosphere. Equivalent to IFDI-565.

IFDI-6566 3D Animation (3.00 cr.)

Applies the principles of animation in a 3D computer environment by utilizing the basic concepts of timing, weight and anticipation. Explores the process of creating a 3D animation using keyframing and rigging techniques to set up model for animation. Equivalent to IFDI-566.

IFDI-6700 Graduate Media Workshop (3.00 cr.)

Create a digital short film project as core role. Equivalent to IFDI-670. Prerequisite: take IFDI-5702.

IFDI-6709 Advanced Electronic Drawing and Imaging (3.00 cr.)

Students develop images using the more advanced techniques of paint software on both PC and Macintosh computers. Variants for each application are explored and each student compiles his or her own library of custom-made friskets, brushes, painting session recordings, and effects. Third party filters are explored in depth. Emphasizes personal creative output and cooperative computer ventures. Equivalent to IFDI-609. Prerequisite: take ART-3325.

IFDI-6730 Directing Drama for TV and Film (3.00 cr.)

The art and craft of directing dramatic film and television productions, including exercises in critical viewing, the drafting of shot lists and storyboards, and instruction in activities such as blocking actors, shot composition, and continuity directing. Equivalent to IFDI-630. Prerequisites: take IFDI-5702, IFDI-5731.

IFDI-6744 Advanced Photographic Digital Imaging (3.00 cr.)

Introduces advanced levels of electronic manipulation and assemblage of photographic images. Students work through a series of exercises designed to build upon methods learned in ART-4544 or ART-6544 and the incorporation of more sophisticated imagery and techniques to produce a higher level of aesthetic work. Equivalent to IFDI-644.

IFDI-6777 Advanced Cinematography (3.00 cr.)

Advanced course of Cinematography. The art and advanced techniques and aesthetics of cinematography as they relate to applied camera operation and lighting - operating dynamic camera movements and developing complicated scenes, and setting up creative lighting with various lighting sources. This course can be repeated with additional subjects. Prerequisite: take IFDI-5777.

IFDI-7725 Advanced Producing for Film and TV (3.00 cr.)

Students take on all the functions of the producer while undertaking the development of a feature film or television program. In addition to drafting a treatment, securing a property, and creating a budget and schedule, students endeavor to develop a project that could become a feature production while attending the university or upon graduation. Equivalent to IFDI-725. Prerequisites: take MCOM-4740 or take MCOM-4735 and MCOM-6735).

IFDI-7730 The Screenplay Project (3.00 cr.)

Intensive development and drafting of a feature dramatic or documentary screenplay project. Equivalent to IFDI-730. Prerequisites: take MCOM-4731, MCOM-6731.

IFDI-8100 Survey of Independent Film and Digital Imaging (3.00 cr.)

Designed to serve as an introduction and orientation to the degree path and the fields of independent film and digital imaging. Equivalent to IFDI-800.

IFDI-8400 Film Seminar (3.00 cr.)

Presents selected topics in film aesthetics, history, and genre analyses. May be repeated for credit with different topics. Equivalent to IFDI-840.

IFDI-8420 Critical Practices in Contemporary Photography (3.00 cr.)

Focuses on and analyzes the work of prominent contemporary photographers, digital artists, and intermedia practitioners through presentations, exhibitions, debates, readings, and individual researchers. Develops a programmatic arena for aesthetic and conceptual thesis formulation. Introduces the fundamentals of critical theory as pertaining to each seminar's theme and/or students' work. Theories will inform and accompany students' artistic approaches toward the academic command of their subject. Equivalent to IFDI-842. Prerequisites: take ART-4544, ART-6544.

IFDI-8800 Internship (1.00-9.00 cr.)

Designed to provide the Independent Film and Digital Imaging degree-seeking student with supervised practical experiences in applied settings, both on and off campus. Course may be repeated. Equivalent to IFDI-880. Prerequisites: take ART-4544, ART-6544 and take IFDI-8100, MCOM-4735, or MCOM-6735.

IFDI-8850 Digital Imaging Thesis Development (1.00 cr.)

Graduate seminar co-taught by two MFA faculty from the Digital Imaging track. The seminar represents a supervised programmatic arena for aesthetic, thematic and/or conceptual thesis formulation for students option to concentrate/specialize in digital imaging. Equivalent to IFDI-885.

IFDI-8990 Masters Thesis Project (3.00-9.00 cr.)

Supervise and direct students engaged in researching and writing an MFA thesis involving production of a major Independent Film or Digital Imaging project and a complementary paper. Equivalent to IFDI-890. Prerequisites: take ART-4544, ART-6544 and take IFDI-8100, MCOM-4735, or MCOM-6735.

Industrial Computing

IDCP-6500 Business Fundamentals for Computing Professionals (3.00 cr.)

This course provides a high-level view of business for non-business students. It will cover business principles relevant to the software industry. The course is organized as a series of case studies and lectures. It will progress from an emphasis on "tools" to a more high-level look at competitive dynamics in high-tech industries. Equivalent to IDCP-650. Prerequisite: take STAT-5520.

IDCP-8300 Computer Modeling and Simulation (3.00 cr.)

This course covers computer modeling and simulation concepts and applications. The course materials consist of modules with background reviews, theories, methods, application domains and software solutions. Students are engaged in detailed study of modeling elements, simulation steps, and their relationships including verification and validation. Students will be introduced to a number of scientific programming and computation software packages such as C++, MATLAB, and SIMULINK. Equivalent to IDCP-830. Prerequisite: take CPSC-3145.

IDCP-8500 Business Intelligence: Data Mining (3.00 cr.)

This course introduces basic concepts, tasks, methods, OLAP technology, application and trends in data mining. The emphasis is on various data mining problems and their solutions. Students will also be exposed to a sample of data mining and business intelligence applications. Equivalent to IDCP-850. Prerequisite: take CPSC-4345.

IDCP-8620 Statistical Computing (3.00 cr.)

This course covers statistical concepts, theories and applications using SPSS. The course materials consist of descriptive statistics, sampling, normal distribution, the t-student distribution, analysis of variance, correlation and regression, contingency tables, and non-parametric statistics. Equivalent to IDCP-862. Prerequisite: take STAT-6219.

IDCP-8800 Internship (6.00 cr.)

Designed to provide graduate industrial computing majors with supervised experience in applied settings. Students will be expected to submit project reports and present their work. Equivalent to IDCP-880.

Interdisciplinary Studies

IDSS-3100 Perspectives Interdisciplinary Studies (3.00 cr.)

Introduces perspectives on interdisciplinary studies and principles of lifelong learning. Covers methods of discipline inquiry and integration; orientation to expectations and standards of higher education; and explores the identification of and relationships between life experiences, life-long learning, personal thinking methods, and self-expression. Equivalent to IDSS-310.

IDSS-3300 Writing a Prior Learning Portfolio (3.00 cr.)

Provides experience in analyzing, writing, assembling, and documenting activities relevant for an Interdisciplinary Studies (IDSS) portfolio that can be assessed by faculty for possible college credit. Emphasizes analysis of prior learning, critical thinking, library research and information access as it pertains to pedagogy of prior learning assessment, and further development of writing skills. Equivalent to IDSS-330.

IDSS-4000 Interdisciplinary Studies Tools (1.00 cr.)

Presents a series of workshops on various specific of patterns and systems related to interdisciplinary studies. These patterns and systems are tools that students can use to recognize commonalities among disciplines. Equivalent to IDSS-405. Prerequisite: take IDSS-3100.

IDSS-4001 Interdisciplinary Studies Self-Awareness (1.00 cr.)

Presents a series of workshops on various topics that encourage students to be more self-aware. Equivalent to IDSS-406. Prerequisite: take IDSS-3100.

IDSS-4002 Interdisciplinary Studies Issues (1.00 cr.)

Presents a series of workshops on various topics viewed from an interdisciplinary perspective. Equivalent to IDSS-407. Prerequisite: take IDSS-3100.

IDSS-4003 Topics in Interdisciplinary Studies (1.00-3.00 cr.)

Presents a variety of topics on interdisciplinary studies. May be repeated once for credit. Equivalent to IDSS-410. Prerequisite: take IDSS-3100.

IDSS-4800 Interdisciplinary Studies Internship (2.00-3.00 cr.)

Provides Interdisciplinary Studies students with supervised, practical experiences in applied settings. Equivalent to IDSS-480.

IDSS-4900 Interdisciplinary Studies Appraisal (3.00 cr.)

Integrates interdisciplinary course work as a function of life-long learning. Relates theories to personal processes and assessment of self-expression through individual and group projects. Equivalent to IDSS-490.

Integrative Studies

INST-3100 Approaches and Interconnections: Scientific Research and Knowledge Production (3.00 cr.)

Comprehensive introduction to the processes involved in knowledge production. Examines how different societies and cultures have used different sources of knowledge to address basic social inquiry. Special emphasis is placed on statistical inference and concrete applications of the scientific method to the natural and social sciences, arts, and the humanities. This course will make students more aware of the possibilities and limitations of the Internet as a medium of delivery of knowledge. Lecture/discussion/web-based course. Equivalent to INST-300.

INST-3105 Writing, Information, and Technology Across the Disciplines (3.00 cr.)

This course helps students develop and integrate skills for writing, accessing, and analyzing information, and using information-based technology across subject disciplines. Students will analyze and practice discourse conventions, critical thinking, and information access within the humanities, social sciences, and physical sciences. Instruction in library research skills and the web as a presentation tool are central to this course. Lecture/discussion/online course. Equivalent to INST-305.

INST-3110 Perspectives on the Physical and Natural Sciences (3.00 cr.)

Introduces the relationships between the physical or natural sciences and other disciplines such as public administration, economics, and health administration. Topics include the relationships among science and law, business, government, public health, and religion. Fundamental aspects of science, such as the scientific process and scientific models are also presented. Equivalent to INST-310.

INST-3200 Humanity and Human Dynamics: a Comparative Study (3.00 cr.)

Examine social and cultural development in a comparative framework. The emphasis is on interdisciplinary theory and approaches concerned with the articulation of collective human consciousness, the political economy, and collective action as they relate to constructing the past and present. Culture/discussion/media-based course. Equivalent to INST-320.

INST-3330 The Measure of Knowledge: Quantitative Research Methods (3.00 cr.)

Develops skills in research design for projects that integrates the different areas of knowledge. Special emphasis is placed in the formulation of public policy projects. It is an applied course which investigates the variety of statistical models used in research: analysis of variance, regression, and qualitative models. Concentrate on the framing of statistical models to fit the types of analysis encountered in integrated social research. A second emphasis will be upon the interpretation of statistical results deriving from tests of the various models. Equivalent to INST-330. Prerequisite: take SOSC-4500 or INST-3100.

INST-3400 New Technology and Us (3.00 cr.)

Provides knowledge and understanding of technological development in our societies from diverse points of view. Discusses topics including bioinformatics, Internet languages and security, and cyber-crime. Equivalent to INST-340.

INST-3500 Literature of the Environment (3.00 cr.)

Literature of the Environment is structured to involve the student in many forms of dialogue on issues pertinent to humanity's relationship with Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet and its needs and a better control of writing in response to learning. Equivalent to INST-350.

INST-3600 Examining the Barriers: Studies in Race, Class, and Gender (3.00 cr.)

Offers an in-depth study of the politics, economics, and social implications of race, class, and gender. Focuses on the ways the discourses of race, class, and gender are produced, as well as on the ways these discourse patterns orchestrate the relations between people's everyday lives and the various social/political institutions that govern them. Investigates ways of reproducing, resisting, and/or reforming existing discourse/power structures. Equivalent to INST-360. Prerequisite: take CPSC-2005.

INST-3650 Environmental Studies: A Case Studies Approach (3.00 cr.)

Uses a case study approach in the characterization and analysis of selected local, regional, and global environmental issues. Develops connections and relationships among the case studies and generalized environmental issues. Equivalent to INST-370.

INST-4000 Special Topics (3.00 cr.)

A series of presentations using resources, specific developments, new creative approaches, and skills which will enable students to understand and appreciate the subject matter. Series may be repeated for different subjects. Equivalent to INST-395.

INST-4100 Computer-Assisted Applications for Problem-Solving (3.00 cr.)

Provides a sound grasp of analytical methods and skills for analyzing, maintaining, and interpreting various types of data used in the areas of social studies, history studies, environmental studies, and the physical and natural sciences. Equivalent to INST-400.

INST-4110 Worlds of Art (3.00 cr.)

Compares art objects from eight differing contexts and diverse geographical world areas and contrasts the imagery, cultural circumstances, and the worldview within which the art was created and functioned. Equivalent to INST-410.

INST-4200 Communication Technology and Culture (3.00 cr.)

Using a systems paradigm, examines the integration between communication technology and culture; applies the principles using various technologies. Equivalent to INST-420.

INST-4300 Global Political Transformation and Economic Integration (3.00 cr.)

Examines contemporary global issues, trends in the transformation processes and international relations in the context in the 21st century. Approaches the study of these processes and entities from an interdisciplinary and integrated perspective using economics, politics, socio-culture, and history. Special emphasis will be placed on issues related to class, gender, ethnicity, and power, causes of conflicts, as well as potential solutions to contemporary global crises. Equivalent to INST-430.

INST-4440 Nations and Migrations in the Atlantic World (3.00 cr.)

Focuses on nation-building and migration history in the Atlantic World: the United States, the Caribbean, South America, industrial Europe, and West Africa. The course addresses the emergence of nations and national identities, the comparative influence of migration, the invention and classification of racial and ethnic categories, the formation of minorities and their differential impact on society, and the internationalization of labor markets. Equivalent to INST-440.

INST-4450 Computer Languages for Business Programming (3.00 cr.)

Introduces computer languages such as C++ to those students who major in the social sciences, information systems, business, and others that are not computer science. A strong emphasis is on business applications rather than science or computer science. Equivalent to INST-445. Prerequisite: take INST-4100.

INST-4900 Senior Project Development (3.00 cr.)

Prepares the student to undertake the senior project, which is the capstone or culminating experience for Integrative Studies majors. In the project, students are required to integrate their course work experience in the context of action in the world at large, an experience which may take any of several forms, including but not limited to goal-oriented international and/or cross-cultural travel, work in the community, or completion of a research project in the sciences, humanities, or arts. The specific direction taken for the senior project will be decided by the student in consultation with the professors overseeing this project development course. Faculty will work closely with the student to prepare him or her to pursue effectively the senior project during the next semester. Equivalent to INST-485. Prerequisites: take INST-3100, INST-3110, INST-3200.

INST-4901 Senior Project (3.00 cr.)

The senior project is designed as a capstone or culminating experience for integrative studies majors. Students are required to integrate their course work experience in the context of action in the world at large. The experience may take any of several forms, including but not limited to goal-oriented international and/or cross-cultural travel, work in the community, or completion of a research project in the sciences, humanities, or arts. The specific direction taken will be decided by the student in consultation with the professors overseeing the senior project development course. Equivalent to INST-490. Prerequisite: take INST-4900.

INST-5101 Cultural Diversity (3.00 cr.)

Study abroad. Experience a variety of cultures on site-art, architecture, music, history, and literature. Culture to be studied is dependent on instructor's preference. Equivalent to INST-501.

INST-5102 Race and Race Relations (3.00 cr.)

The course examines discourse on race, race relations, and resistance in a world-historical context. Participants will study epistemology constructing the idea of race and racial categories. They will study the uses of race discourse and practice in the colonial and post-colonial encounter. Following dialectical methodology, participants will study discourses of resistance, rebellion, and reform underlying social change and the pursuit of racial justice. Equivalent to INST-502.

INST-5103 Tropical Ecology (3.00 cr.)

The course will integrate tropical ecology with current resource use practices, economics, and history of the Mayan culture in Belize. The central focus of the course will be ecological, with one week spent at a tropical rain forest field station and a second week spent on a barrier reef caye. The course will provide a broad-based overview of tropical ecosystems through "hands-on" experience and workshops dealing with such diverse subjects as climate, biodiversity, ethnology, and human influences on the environment. Equivalent to INST-503. Prerequisite: take BIOL-2104.

Intercultural Studies

ICS-3200 Dynamics of the Spanish Language (3.00 cr.)

Study of the Spanish language at both beginning and advanced levels of understanding. Focuses on different approaches and techniques to increase fluency in a second language. Equivalent to ICS-320.

ICS-3400 Chinese Language and Culture I (3.00 cr.)

China is developing both socially and economically at a rapid pace and is becoming more and more open to the outside world. In this sense, more and more connections are bound to occur between the U.S. and China. Therefore, the learning of Chinese language and culture will not only enhance the student's ability to communicate in Chinese, but also promote the student's understanding of Chinese culture and society. It will also give students a chance to enrich their own experience in language learning and the ability to communicate interculturally. Equivalent to ICS-440.

ICS-3401 Chinese Language and Culture II (3.00 cr.)

Introduces more situational conversations and Chinese characters; integrates language and learning with culture; and includes topics of Chinese economy, politics, education, and arts. Equivalent to ICS-441. Prerequisite: take ICS-3400.

ICS-3550 German Language and Culture I (3.00 cr.)

Introduces basics of German languages, integrates language and learning with culture, develops speaking, listening, reading, and writing skills up to a basic level, which will enable them to engage in simple conversations with German-speaking people. Introduces the traditions and culture of everyday life for German-speakers. Equivalent to ICS-455.

ICS-3551 German Language and Culture II (3.00 cr.)

Introduces intermediate German language concepts, integrates language and learning with culture, develops students' speaking, listening, reading, and writing skills up to an intermediate level, which will enable them to express their own ideas and interact with German speakers significantly. Presents grammar and vocabulary as crucial tools for effective communication. Equivalent to ICS-456. Prerequisite: take ICS-3550.

ICS-4400 Chinese Language and Culture III (3.00 cr.)

Introduces more situational conversations and Chinese characters; integrates language and learning with culture; and includes the topics of Chinese philosophy, literature, religions, tourism, and sports. Equivalent to ICS-442. Prerequisites: take ICS-3400, ICS-3401.

ICS-4550 German Language and Culture III (3.00 cr.)

Introduces upper-intermediate German language concepts, integrates language and learning with culture, develops students' speaking, listening, reading, and writing skills, which will enable them to express their own ideas and interact with German speakers. Presents grammar and vocabulary as crucial tools for effective communication. Equivalent to ICS-457. Prerequisite: take ICS-3551.

ICS-4600 Topics in Geography: World History and Geography (3.00 cr.)

Develops a critical awareness of the relationship of geography to major events and periods in world history. Integrates basic concepts and methods in geography (nature, culture, region, area, localization, scale, evolution, map-reading, and quantification) in a critique and comparison of major historical constructs (society, resource, diffusion, race, environmental determinism, and social breakdown and disintegration). Equivalent to ICS-550.

ICS-4605 Perspectives in Latin Studies (3.00 cr.)

Provides, through interdisciplinary survey perspective, an introduction to Latino studies. Introduces readings in several disciplines centered on the concepts of Latino identity through a cultural lens. Equivalent to ICS-5500, ICS-505.

ICS-4610 Introduction to Gender Studies (3.00 cr.)

Provides through an interdisciplinary survey perspective, an introduction to gender studies. Introduces readings in several disciplines centered on the concept of gender as a social reality. Equivalent to ICS-510.

ICS-4620 African Politics (3.00 cr.)

Examines the problem of social and political change on the African continent. Evaluates selected paradigms and concepts in terms of the historical scope and range of national and interregional situations. Equivalent to ICS-532.

ICS-4630 Hispanic Experience in the US (3.00 cr.)

Examines the Hispanic/Latino experience in the United States with a consideration of both the immigrant experience and the challenges of subsequent generations. Attention is given to the political, socio-economical, and cultural dimensions of this experience. Equivalent to ICS-5400, ICS-540.

ICS-4640 African Civilizations (3.00 cr.)

Offered in both lecture and televised formats. A study of African people and their various cultural differences. Focuses on correcting misconceptions of Africa and the Africans through readings from a wide selection of publications. Equivalent to ICS-548.

ICS-4650 Latin America: Culture and Society (3.00 cr.)

Offered in televised format only. A study of the historical and cultural evolution of the Latin American and Caribbean societies in their economic, political, and ideological aspects with emphasis on the process of modernization, and contemporary issues such as economic development, revolution, insurgency of women, migration, religion, and reform. Equivalent to ICS-575.

ICS-6610 Introduction to Gender Studies (3.00 cr.)

Provides through an interdisciplinary survey perspective, an introduction to gender studies. Introduces readings in several disciplines centered on the concept of gender as a social reality. Equivalent to ICS-510.

Information Technology

IT-3110 Fundamentals of Information Technology (3.00 cr.)

Explores the basics of computer technology, including hardware and software, as well as introductory networking and security topics and basic troubleshooting techniques. Hardware topics include system boards, processors, memory, power supplies, input/output (I/O) ports and devices, and laptop computers. Software topics include operating systems and O/S installation.

IT-3210 Introduction to Scripting Languages (3.00 cr.)

Explores the basics of program logic and scripting languages. Basic programming concepts and design will be studied and adapted to scripting languages allowing customization of the computer environment.

IT-3310 Information Technology Project Management (3.00 cr.)

Introduces students to the procedures, tools, terminology and techniques used in planning and managing Information Technology projects. Issues covered include scope, time management, HR management, communication and risks of the projects. The course also focuses on developing the manager's ability to organize and lead project teams, manage costs and multiple resources.

IT-4210 Wireless Networks and Security (3.00 cr.)

Explores the basics of wireless networks and wireless security, as well as wireless site surveys. Topics covered include IEEE 802.x standards for wireless communications. The course focuses on the development of wireless networks from site surveys to secure implementation.

IT-4455 Securing Operating Systems (3.00 cr.)

This course enhances students' knowledge of security and operating systems. The skill set, procedures, and compliance related practices regarding operating systems will be explored. Prerequisites: take CPSC-4570, CPSC-4535.

IT-4520 IP Routing (3.00 cr.)

A study of protocols, including the planning, configuration and implementation of secure enterprise LAN and WAN routing solutions using a range of routing protocols. Prerequisite: take CPSC-4342.

IT-4521 IP Switched Networks (3.00 cr.)

A study of switching principles, including the planning, configuration, and implementation of VLANs, fault tolerant LANs, and accommodations for voice and video on local area networks. Prerequisite: take CPSC-4342.

IT-4522 Troubleshooting IP Networks (3.00 cr.)

A study of troubleshooting principles, including performing regular maintenance on complex routed and switched networks and use of technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. Prerequisite: take IT-4520 or IT-4521.

IT-4540 Information Security and Assurance I (3.00 cr.)

The course introduces students to computer vulnerabilities and threats and steps that can be taken to safeguard computers and networks from vulnerabilities and threats. This course will expose the student to security planning, security technology, security organization, and the legal and ethical issues associated with computer and network security. Prerequisite: take CPSC-4342 or CPSC-4570.

IT-4541 Information Security and Assurance II (3.00 cr.)

Focuses on the principles, theory and terminology of Information Assurance. Students will study the principles of vulnerabilities, risk management, countermeasures, operational security and disaster planning. The course will also introduce common threats, tools, and practices used by hackers to attach an organization's information infrastructure. Special emphasis is placed on the use and understanding of scanning and exploit tools. Prerequisite: take IT-4540.

IT-4560 Introduction to Virtualization (3.00 cr.)

Focuses on both the theory and practice of virtualization techniques. Topics include basic virtualization concepts, virtualization technique comparison, desktop virtualization, server virtualization, network virtualization, storage virtualization, security issues in virtualization, virtualization products, and designing and managing virtual infrastructures. Prerequisite: take CPSC-4535.

IT-4561 Introduction to Cloud Computing (3.00 cr.)

Focuses on both the theory and practice of cloud computing technologies. Topics include basic cloud computing concepts, comparison between cloud computing and other related technologies, service model classification, Software as a Service (SaaS), Infrastructure as a Service (IaaS), Platform as a Service (PaaS), management in cloud computing, security issues in cloud computing, and cloud computing applications. Prerequisite: take CPSC-4535.

IT-4562 Special Topics in Virtualization and Cloud Computing (3.00 cr.)

Focuses on special topics in virtualization and cloud computing, such as mobile virtualization, mobile cloud computing, security and privacy issues in virtualization and cloud computing, performance and quality of service, interoperability, and standardization. Prerequisite: take CPSC-4535.

IT-4810 Information Technology Senior Seminar/Project (3.00 cr.)

Provides the Information Technology student with the opportunity to synthesize work by developing and completing a project specific to the student's interests in information technology.

Japanese

JAPN-3350 Japanese Language and Culture I (3.00 cr.)

This course is designed to help students improve basic Japanese language skills and obtain general information of Japan. Students will handle and perform daily conversation in Japanese, acquire the abilities to read and write two basic Japanese characters, HIRAGANA and KATAKANA (and some KANJI) and learn introductory grammar. Topics about Japanese culture will be presented and discussed to understand Japan, Japanese people, and the language. Equivalent to JAPN-435.

JAPN-3351 Japanese Language and Culture II (3.00 cr.)

This course is designed for students who have basic four skills of Japanese Language (speaking, writing, reading, and listening). Students will improve their conversational skills and learn more grammar, and expand their basic knowledge of Kanji, vocabulary and idioms. Students also have opportunities to learn about Japanese history, culture, political system, and economy. Equivalent to JAPN-436. Prerequisite: take JAPN-3350.

JAPN-4350 Japanese Language and Culture III (3.00 cr.)

This course is designed to improve students' command of Japanese in writing, speaking, reading, and understanding. Students also have opportunities not only to learn and discuss Japanese culture, customs, thinking and politics, but also to achieve mutual respect among people in the United States and Japan. Equivalent to JAPN-437. Prerequisite: take JAPN-3351.

Liberal Arts and Sciences

LAS-4100 Investigations in the Social Sciences (3.00 cr.)

Examines the major debates over the dominant paradigms that guide the various social research disciplines, (e.g., history, sociology, political science, and economics). In particular, the status of social knowledge, theories of "human nature," the social basis of collective action, the role of the state, and the sources of social diversity and historical change will be considered. Equivalent to LAS-410.

LAS-4125 Investigations in Scientific Thought (3.00 cr.)

Examines the development of scientific concepts from the ancient Greeks to the present, focusing on how scientists think and work—their thought processes, their approaches to problem-solving, the roles of conjecture and intuition, and the role of serendipity. Contributions of individual scientists and schools of scientific thought are critically evaluated, and the importance of science in contemporary society is assessed. Equivalent to LAS-430.

LAS-4127 Investigations in Mathematical Thought (3.00 cr.)

Examines the development of mathematical concepts from the ancient Greeks to the present. Contributions of individual mathematicians and schools of mathematical thought are critically evaluated, and the importance of mathematics in modern culture is appraised. Equivalent to LAS-440.

LAS-4200 Investigations in the Humanities (3.00 cr.)

Examines investigatory procedures and explanatory logic used in treating art, literature, and music. Emphasis will be placed on specific artists, composers, and literary figures with reference to the creative process. Equivalent to LAS-420.

Leadership

LEAD-9101 Research Literature, Data Analysis, and Decision Making (3.00 cr.)

Provides doctoral students with guidance in the design of scientific method, data collection, data analysis strategies, and alternative designs for research questions and culminating projects. Emphasizes both quantitative and qualitative approaches to public inquiry and problem solving. Prerequisite: take LEAD-9102.

LEAD-9102 Theory and Ethics of Leadership (3.00 cr.)

Examines the historical and contemporary development of leadership theory and research, covering leadership in public (government and quasi-governmental) and private organizations, in Western and non-Western cultures. Topics include ethical practices, leaders behaviors, situational approaches to leadership, followership, teams and boards, diversity, power, communication, global leadership, change management, and leadership development.

LEAD-9105 Communicating Strategies for Effective Organizations (3.00 cr.)

Addresses the principles, knowledge, and skills related to effective interpersonal and public relations in educational, not-for-profit, and public safety organizations. Emphasis is placed on communication theories and practices; interaction with media venues: uses of technology; the social ecology of organizations; conflict and crisis management; community relations; strategic marketing and legal and ethical considerations.

LEAD-9106 Change, Diversity, and Global Issues (3.00 cr.)

Applies theory to the practice of leadership within societies and organizations as they face the adaptive challenges of a changing global world. The course clarifies the relationship among key concepts—leadership, management, authority, power, influence, change, and diversity—to provide students with a practical, coherent, and clear theoretical understanding of contemporary and emergent forms of leadership.

Management

MGMT-2100 Introduction to Management Strategies (3.00 cr.)

Introduces classical management, behavioral, and management science. Reviews the fundamental functions of management emphasizing the interrelationships among planning, organizing, directing, and controlling. The effect of participants upon organizations are studied. Examines systems approach to solving operational problems. Equivalent to MGMT-301, MGMT-2100.

MGMT-3200 Business Communications (3.00 cr.)

Presents a comprehensive treatment of basic principles of verbal and nonverbal business communications, including business letters, memoranda, reports, oral communication, and technical report writing. Equivalent to MGMT-360.

MGMT-3210 Business Ethics and Social Responsibility (3.00 cr.)

Introduces moral principles and their applications to current issues in business. This course provides students the tools, concepts, and frameworks needed to make ethical decisions. Selected contemporary ethical issues in business are also explored. Equivalent to MGMT-415. Prerequisite: take MGMT-2100.

MGMT-3300 Human Resource Management (3.00 cr.)

Acquaints the student with concepts and techniques of the human resource management process. Emphasizes ways to increase organizational group and personal effectiveness, as well as enhancing the quality of organizational life and using the human resources available. Equivalent to MGMT-320. Prerequisite: take MGMT-2100.

MGMT-3400 Production and Operations Management (3.00 cr.)

Offered in both lecture and televised formats. Introduces operations management, including examples from both manufacturing and services. Topics covered include product and service design, process design, forecasting, inventory management, scheduling, and logistics, with particular emphasis given to quality management and process improvement. Equivalent to MGMT-340. Prerequisites: take MGMT-2100, STAT-2700.

MGMT-4300 Labor Relations (3.00 cr.)

Introduces the study of management-union relations and the problems that arise for the enterprise in the managing of the union relationship as part of the human resource management function. Considers the structure, aims, and objectives of the union institution; the manner in which management deals with unions, management structure, and objectives in collective bargaining; the resolution of management-union disputes; and government regulation of collective bargaining. Equivalent to MGMT-421. Prerequisite: take MGMT-2100.

MGMT-4310 Compensation and Incentive Systems (3.00 cr.)

Deals with a wide range of pay theories together with certain precise methods of building compensation scales. Introduces the pay survey and requires development of an individual project. Considers problems of compensation and fringe benefits in times of high inflation. Equivalent to MGMT-423. Prerequisite: take MGMT-3300.

MGMT-4320 Labor Markets (3.00 cr.)

Analysis of labor force, labor supply, wages, and unemployment in terms of labor marketing experience and current theories. Appraisal of effects of unions and government policies on the economic position of labor. Equivalent to MGMT-425. Prerequisites: take ECON-2301, ECON-2302.

MGMT-4330 Human Resource Training and Management Development(3.00 cr.)

Reviews the various internal and external sources and techniques of training the work force and provides the opportunity for students to develop and implement at least one training product. Equivalent to MGMT-426. Prerequisite: take MGMT-2100.

MGMT-4400 Supply Chain Management (3.00 cr.)

Considers the entire supply chain, covering both materials management (inbound) and physical distribution (outbound). Discusses the relationship management needed to build an effective supply chain. Emphasizes the strategic potential of logistics to attract and hold on to customers. Covers the five major costs of logistics (inventory, storage, packaging, transportation, and information) and the trade-offs involved in managing these costs. Equivalent to MGMT-442. Prerequisite: take MGMT-3400.

MGMT-4410 Quality Management (3.00 cr.)

Covers a mixture of technical and behavioral topics to prepare future managers to evaluate and improve the quality of business processes. Technical topics include statistical process control, process capability, Taguchi methods, ISO standards, and a variety of process improvement tools. Behavioral topics include employee empowerment, team-building, labor relations, and change management. Equivalent to MGMT-432. Prerequisites: take MGMT-2100, STAT-2700.

MGMT-4420 Production and Inventory Control Systems (3.00 cr.)

Considers the concepts and methods for planning, scheduling, and controlling manufacturing operations. Includes machine loading, applications for short-run production, and continuous production. Studies tooling, equipment, and production of manufactured and processed products. Presents applications of the management science method, including forecasting demand, scheduling production, controlling inventories, linear programming, waiting line, simulation, and statistical techniques for controlling production. Equivalent to MGMT-443. Prerequisite: take MGMT-3400.

MGMT-4430 Service Operations Management (3.00 cr.)

Covers the principles of operations management as applied in a service setting. Topics covered include service process design, capacity management, employee scheduling, customer service, productivity and quality improvement, and operations strategy. Various management science methods, including linear programming and queuing models will be applied to the service environment. Equivalent to MGMT-444. Prerequisite: take MGMT-3400.

MGMT-4470 Seminar in Production and Operations Management (3.00 cr.)

Focuses attention on the application of quantitative analysis, systems analysis, and other dynamic techniques to current operations problems. Readings, problems, classroom discussions, and group participation are required of all students. Individualized projects are possible that will be presented and evaluated in group sessions. Open to seniors only. Equivalent to MGMT-445. Prerequisite: take MGMT-3400.

MGMT-4500 Organizational Behavior (3.00 cr.)

Offered in lecture format and as a correspondence course. Analyzes the behavior of people in organizations. Discusses organizational motivation, leadership, group behavior, communication, and decision-making. This is an extension and intensification of the behavioral portion of MGMT301. Equivalent to MGMT-401. Prerequisite: take MGMT-2100.

MGMT-4540 Seminar in Production and Operations Management (3.00 cr.)

Designed as the capstone course for the B.S. in Applied Management, this course provides an integrated, strategic view of management and technology. Students will leverage prior learning experiences in technology and relate it to the learning from various management courses. Addresses the contemporary challenges general managers face today including globalization, technology induced innovation, and sustainable development. Equivalent to MGMT-465.

MGMT-4570 Behavioral Research in Business (3.00 cr.)

Designed to assist students who have had only a limited background in research and statistics. Emphasizes the language of research and the practical application of research designs to business. Equivalent to MGMT-422. Prerequisite: take STAT-2700.

MGMT-4600 Globalization of Business (3.00 cr.)

Presents an introduction and overview of the economic, social, and political aspects of international/multinational business theory and practice. Provides a foundation for students who wish to acquire greater knowledge and expertise in this rapidly expanding field. Equivalent to MGMT-410. Prerequisite: take MGMT-2100.

MGMT-4610 International Business Strategy and Technology Management (3.00 cr.)

Management of financial, human, operations resources, and technological innovation in international contexts. Focuses on the design and implementation of corporate strategies and performance measurement. Equivalent to MGMT-455. Prerequisite: take MGMT-2100.

MGMT-4880 Internship (3.00 cr.)

Designed to provide management students with supervised practical experiences in applied settings. Equivalent to MGMT-480.

MGMT-4900 Strategic Management (3.00 cr.)

Designed as the capstone course to integrate the various functional areas of business and administration through case discussion and business simulation that applies management, finance, production, marketing, economic, and accounting principles to solving business problems.

Note: An additional fee of \$35.00 will be charged at the time of registration for this course. Equivalent to MGMT-469.

MGMT-5000 Topics In Management (1.00-3.00 cr.)

Presents selected topics in the private and public sectors. May be repeated for credit with different topics. Equivalent to MGMT-550.

MGMT-5200 Advanced Business Communications (3.00 cr.)

Taught in conjunction with other designated courses in the College of Business and Public Administration to emphasize advanced writing and speaking skills. Emphasizes research methods, organization, formatting, writing, and oral presentation of business reports and proposals.

Examines problems in intercultural communication, especially in international business. Equivalent to MGMT-560. Prerequisite: take MGMT-3200.

MGMT-5520 Administration of Non-Profit Organizations (3.00 cr.)

Stresses the relationship between the principles of business administration management and institutional management. Emphasizes the differences in goal setting and attainment and dependence upon different sources for their funds. Discusses the importance of volunteerism for a broad base of support and validation of need. Equivalent to MGMT-515. Prerequisite: take MGMT-2100.

MGMT-5700 Statistical Data Processing for Business (3.00 cr.)

Deals with the systematic collection, analysis, and interpretation of business data. Topics include principles of measurement, concept of statistical design of experiments, sampling methods, handling missing data, efficient coding, and analysis using package programs. Approximately 50 percent of course time will be devoted to computer applications. Equivalent to MGMT-511. Prerequisites: take STAT-3700, MGMT-6700.

MGMT-6100 Foundations of Management and Marketing (3.00 cr.)

Introduces students to the language and practice of general management, including the legal, social, and global environment of business, the craft of the general manager, the functions of management, and the role and practice of marketing and operations. Uses case analysis and teamwork. This is a foundation course for the MBA program. Equivalent to MGMT-601.

MGMT-6700 Foundations of Managerial Statistics (3.00 cr.)

Provides the student with sufficient statistical background for the graduate programs in CBPA. Includes descriptive statistics, probability, sampling theory, interval estimations, significance testing, the analysis of variance, correlation, and regression. Equivalent to MGMT-610. Prerequisites: take MIS-2101, MATH-1423.

MGMT-7200 Problems in Business Ethics (3.00 cr.)

Explores the role of the corporation in modern society and its responsibilities to the public government and the economic and social well-being of the nation. Equivalent to MGMT-823. Prerequisite: take MGMT-2100.

MGMT-7300 Human Resource Management Strategies (3.00 cr.)

Examines factors both internal and external to the organization and their influence on human resource planning. Deals with current issues and research in the area of human resource management. Equivalent to MGMT-820. Prerequisite: take MGMT-6100.

MGMT-7400 Operations Management: Strategies and Techniques (3.00 cr.)

Covers topics of operations management, including product/service design, process design, quality management, inventory management, scheduling, purchasing and logistics, operations strategy, with significant emphasis on logic and techniques of supply chain management and process improvement. Focuses on the strategic impact of operations and the relationship among operations and the other functional areas of the firm in the global context. Equivalent to MGMT-840. Prerequisites: take MGMT-6100 or [MGMT-2100 and MKTG-2100] and MGMT-6700 or [STAT-2700 and STAT-3700].

MGMT-7500 Organization Behavior in the Global Context (3.00 cr.)

Study of behavior in organizations worldwide and a critical examination of theories for explaining organizational change and phenomena. Equivalent to MGMT-810. Prerequisites: take MGMT-6100 or take MGMT-2100 and MKTG-2100.

MGMT-7600 International Business (3.00 cr.)

Presents a systematic overview of international business. There will be an integrated progression of topics beginning with an understanding of the political, economic, cultural and monetary influences on international investment and business. The course will conclude with developing an understanding of the strategic and operational alternatives when conducting international business. Equivalent to MGMT-830. Prerequisites: take MGMT-2100 and ECON-6100 or take MGMT-2100, ECON-2301, and ECON-2302.

MGMT-8000 Advanced Topics in Management (1.00-3.00 cr.)

A graduate seminar exploring selected contemporary issues in the private and public sectors. May be repeated for credit with different topics. Equivalent to MGMT-865.

MGMT-8300 Labor Management Relations (3.00 cr.)

Deals with problems arising from employer- labor relationship. Studies theories of work, problems in organization, human resource management, and industrial relations research. Equivalent to MGMT-825.

MGMT-8310 Human Resource Selection and Compensation (3.00 cr.)

Addresses theory and an overview of practices in personnel recruiting, selection, and compensation. Focuses on establishing recruitment plans, prediction of employee performance, employee selection methodology, selection system validation, establishing compensation systems, and determining internal and external value of jobs. Equivalent to MGMT-821. Prerequisite: take MGMT-7300.

MGMT-8400 Global Supply Chain Management (3.00 cr.)

Studies global supply chain from a managerial perspective. Covers supply chain design, planning and operation. Emphasizes the strategic role of supply chains within a firm and between firms, and demonstrates how supply chains can be designed to create competitive advantage. Topics covered include forecasting, materials management, sourcing and procurement, distribution and logistics, transportation, information flows, and supply chain optimization. Equivalent to MGMT-842. Prerequisite: take MGMT-7400.

MGMT- Logistics, Transportation and Warehouse Management (3.00 cr.)

Focuses on the concepts and principle of logistics management, including theories and practices of modern logistics, transportation management, warehouse and facility management, and performance measurement. Equivalent to MGMT-843. Prerequisite: take MGMT-8400.

MGMT-8420 Decision Models in Supply Chain Management (3.00 cr.)

Examines theory, models, and methodologies in supply chain management and logistics. Optimization, decision theory, simulation, and network models will be covered. Topics include models in inventory, warehousing, capacity, location, transportation, planning, performance measurement and risk. Equivalent to MGMT-844. Prerequisite: take MGMT-7400.

MGMT-8430 Strategic Procurement and Materials Management (3.00 cr.)

Presents the basic principles, policies and procedures governing the procurement of raw materials, components, finished products, and capital equipments. Focuses on the interrelationships of purchasing with other functional areas (marketing, finance, logistics, operations management, etc.) of business. Students are exposed to the tools and techniques for the management of strategic sourcing, materials management and quality management. Equivalent to MGMT-846. Prerequisite: take MGMT-8400.

MGMT-8440 Project Management: (3.00 cr.)

Studies the principles of efficient project planning and control-needs analysis, work breakdown, scheduling, resource allocation, risk management, and performance tracking and evaluation - within the timeframe and cost projections stated in the overview section. Equivalent to MGMT-835. Prerequisites: take MIS-7101 and MGMT-6700 or take MIS-7101, STAT-2700, and STAT-3700.

MGMT-8450 Production Problems and Analysis (3.00 cr.)

Production planning, machine operations, and materials for the manufacture of a product. Problems include the analysis of the elements of production scheduling and control, balancing work stations on production lines, and simulating plant layout. Equivalent to MGMT-816. Prerequisite: take MGMT-3400.

MGMT-8500 Leadership Dynamics (3.00 cr.)

This course is designed to give the student an understanding of the leadership task in modern organizations. It is a skills oriented approach, though the material will be linked to theory. Thus, we will concentrate on application and implementation by combining lectures and readings within class case analyses and group exercises. Equivalent to MGMT-855. Prerequisite: take MGMT-2100.

MGMT-8510 Interdisciplinary Team Process (3.00 cr.)

This course will bring together graduate students from many disciplines to learn effective communication and processing skills that will allow them to develop the understanding necessary for effective collaboration. This course will use communication and team building skills to demonstrate the value of interdisciplinary approaches. Such an interdisciplinary approach will show students effective techniques for valuing and educating clients/customers, identifying and overcoming barriers to effective customer/client service, and leading to outcomes desired by the client/customer. Equivalent to MGMT-864.

MGMT-8550 Small Business Management (3.00 cr.)

Applies the principles and techniques of management to the operation of a small business. Develops an in-depth understanding of small businesses using Small Business Institute cases. Equivalent to MGMT-845. Prerequisite: take MGMT-4550.

MGMT-8610 International Business Strategy and Organizations (3.00 cr.)

Analyzes business operations in the context of international business; focuses on entry strategies and organizational challenges involved in managing activities across national markets with emphasis on the relationship between entry strategies and organizational structure. Equivalent to MGMT-833. Prerequisite: take MGMT-7600.

MGMT-8700 Issues in Public and Private Management (3.00 cr.)

An advanced study of organizational issues such as leadership and organizational change. Students apply the ideas to public or private organizations. Equivalent to MGMT-860. Prerequisite: take MGMT-7500.

MGMT-8800 Independent Study (1.00-4.00 cr.)

Independent study is intended to provide better students with an opportunity to study a topic of their choice in management under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation in management and an instructor to sponsor the work. Equivalent to MGMT-870.

MGMT-8880 Internship (3.00 cr.)

Designed to provide management students with supervised experiences in applied settings. Equivalent to MGMT-880.

MGMT-8890 Graduate Thesis/Project (6.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of two faculty in the College of Business and Public Administration and approved by the dean. Students interested in pursuing a doctorate in business should select the thesis option. Equivalent to MGMT-890.

MGMT-8900 Strategic Management in a Global Context (3.00 cr.)

Integrates the various operating functions of a business as the capstone course of the MBA degree. Shows the business as a system and demonstrates those special coordinating skills and knowledge that are necessary at the upper levels of an organization. Uses case analysis and assigned readings. Note: An additional fee of \$35.00 will be charged at the time of registration for this course. Equivalent to MGMT-849.

Management Information Systems

MIS-0100 Word Processing and Presentation Skills (1.00 cr.)

Required course for CBPA students who have not achieved a 70% (undergrads) or 80% (graduates) on the MIS Competency exam, part 1, Word Processing and Presentation skills or prefer to sharpen their skills prior to taking the exam. Students who achieve a grade of "P" will have met the CBPA requirement for Part 1 of the MIS Competency exam.

MIS-0200 Spreadsheet Skills (1.00 cr.)

Required course for CBPA students who have not achieved a 70% (undergrads) or 80% (graduates) on the MIS competency exam, spreadsheet skills or prefer to sharpen their skills prior to taking the exam. Students who achieve a grade of "P" will have met the CBPA requirement for spreadsheet skills of the MIS Competency exam.

MIS-0300 Database Software Skills (1.00 cr.)

Required course for CBPA students who have not achieved a 70% (undergrads) or 80% (graduates) on the MIS Competency exam, Database skills or prefer to sharpen their skills prior to taking the exam. Students who achieve a grade of "P" will have met the CBPA requirement for database skills of the MIS Competency exam.

MIS-0400 MIS Concepts (1.00 cr.)

Provides an introduction to the use of computers to manage and analyze information in business and public administration. This includes introductory concepts of computer technology and management of information systems, concepts of systems analysis and problem solving.

MIS-1111 Word Processing Applications (1.00-3.00 cr.)

Provides a course in word processing. Topics are dependent upon the level offered (introductory, intermediate, or advanced). Equivalent to MIS-310.

MIS-1301 Introduction to Spreadsheets (1.00-3.00 cr.)

Provides an introduction to spreadsheets. See schedule for specific package offered. This course credit can vary from 1-3 hours dependent upon the level (introductory, intermediate, or advanced) offered. Equivalent to MIS-320.

MIS-1501 Database Applications (1.00-3.00 cr.)

Provides information on database management packages. See schedule for specific package covered. Equivalent to MIS-330.

MIS-1701 Intro to PowerPoint Applications (1.00 cr.)

Provides a course in introductory presentation tools software. See schedule for specific package offered. Equivalent to MIS-340.

MIS-1702 Advanced Presentation Software (1.00 cr.)

Provides a course in advanced presentation software and tools. See schedule for specific package offered. Equivalent to MIS-341. Prerequisite: take MIS-2101.

MIS-2001 Topics in Innovative Technology Systems (1.00-3.00 cr.)

Provides for hands-on experience with the latest software updates and latest technological offerings. Equivalent to MIS-399.

MIS-2101 Basics of Information Technology (3.00 cr.)

Provides an introduction to the use of computers in business data processing, including introductory concepts of computer technology. Includes hands-on experience with various microcomputer software packages, focusing on student use of electronic spreadsheet, word-processing, database, and presentation software. Equivalent to MIS-301.

MIS-3101 Management Information Systems (3.00 cr.)

Provides an overview of the fundamentals underlying the design, implementation, control, evaluation and strategic use of modern, computer-based information systems for business data processing, office automation, information reporting, decision-making, and electronic commerce. It covers introductory concepts of information technology in business, problem solving using information technology, and discusses the future of information technology. Equivalent to MIS-370. Prerequisite: take MIS-2101.

MIS-3201 Business Systems Analysis (3.00 cr.)

Introduces and utilizes the basic concepts of analysis of information systems. Emphasis will be on business systems development using CASE tools. Equivalent to MIS-401. Prerequisites: take MIS-3101, MIS-3401.

MIS-3202 Business Systems Design and Prototyping (3.00 cr.)

Introduces systems design and application prototyping presents several methods for extracting, presenting, and refining a business user's needs by building a working model with the help of software tools. Includes the basic concepts of design, specification languages, and systems implementation. Emphasis will be on business systems development using CASE tools Equivalent to MIS-402. Prerequisites: take MIS-3101, MIS-3201, MIS-3401.

MIS-3401 Business Information Retrieval and Database Management (3.00 cr.)

Introduces management of database systems. Management problem-solving will be related to the output of databases to include the development of business strategies, competitive analysis, internal analysis of cost, and other selected business subjects. Commercial software will be reviewed for performance and advantages. Addresses functional management lines and show a relationship between the external and internal environment and the business firm. Equivalent to MIS-420. Prerequisite: take MIS-3201.

MIS-3501 Microcomputer Development and Diagnosis (3.00 cr.)

Prepares students for the A+ Certification exam given by CompTIA. By teaching the various hardware components, operating systems, and networking. Focuses on DOS and Windows-based operating systems, including operating system commands. Equivalent to MIS-360. Prerequisite: take MIS-2101.

MIS-3601 Telecommunications and Distributed Data Systems (3.00 cr.)

Discussion of the fundamental terminology and operations of data communication networks, including interactive systems, distributed data processing, and local area networks. Equivalent to MIS-440. Prerequisite: take MIS-3101.

MIS-3602 Fundamentals of Networking Hardware and Operating Systems (3.00 cr.)

Covers the fundamental hardware of networking, including cabling, network cards, switchers/routers, and servers. It covers the installation and troubleshooting of each of these components. Network Operating Systems installation and troubleshooting will also be covered. Equivalent to MIS-445. Prerequisites: take MIS-3501, MIS-3601.

MIS-4001 Topics in Management Information Systems (1.00-3.00 cr.)

This course offers the student the opportunity to study a current topic in this rapidly changing field. Equivalent to MIS-550.

MIS-4101 Business Decision Modeling (3.00 cr.)

Introduces the use of computers in creating models of business systems and simulations of business system outcomes. Covers the use of management gaming and the development of heuristic models used for management decision-making. Introduces use of modeling software and simulation languages. Equivalent to MIS-430. Prerequisites: take MIS-3201, MIS-3401, STAT-2700, STAT-3700.

MIS-4301 Information Systems Management (3.00 cr.)

Describes the role of information systems in business. Internal organization of the information systems department, and current information systems technology and theory are explored, but the emphasis is on real-life management issues. Equivalent to MIS-450. Prerequisites: take MGMT-2100, MIS-3201, MIS-3401.

MIS-4501 Introduction to Management Sciences (3.00 cr.)

Surveys the fundamentals of quantitative approaches to management decisions, including linear programming, forecasting, queuing, and inventory systems. Applications focus on business problems at an elementary level. Equivalent to MIS-460. Prerequisites: take MIS-3101, STAT-3700.

MIS-4580 Information Security (3.00 cr.)

Explores fundamental concepts in information security. Topics include elementary cryptography, threats and countermeasures on stand alone computer systems, database security, network security, and administering security. Equivalent to MIS-580. Prerequisite: take MIS-3601 or CPSC-4342.

MIS-4800 Internship (3.00 cr.)

Provides the MIS student with supervised practical experiences in applied settings. Requires at least three classroom meetings. Equivalent to MIS-480.

MIS-4801 Information Security Policy and Management (3.00 cr.)

Explores policy and management aspects of information security to protect computer systems and networks. Topics include security models, policy, planning, risk analysis and management, operations security, physical, personnel and administrative security, access control, security evaluation, life cycle management, software security guidelines, network security guidelines, auditing and monitoring, and legal and ethical issues. Equivalent to MIS-581. Prerequisite: take MIS-4580 or CPSC-4580.

MIS-4805 Independent Study (1.00-3.00 cr.)

Independent study is intended to provide better students with the opportunity to study a topic of their choice in management information systems under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within management information systems and an instructor to sponsor the work. Equivalent to MIS-470.

MIS-4999 Information Systems Project Management (3.00 cr.)

Provides experiences similar to those encountered in MIS professional practice. Integrates various concepts learned in other MIS and management courses in the context of designing, implementing, documenting, and testing a computer-based MIS project. Explores ethical concerns of the MIS profession and emphasizes strong project management and communication skills. Equivalent to MIS-465. Prerequisites: take MIS-3201, MIS-3202, MIS-3601.

MIS-6101 Information Systems for Managers (3.00 cr.)

Provides an introduction to the use of computers to manage and analyze information in business and public administration. This includes introductory concepts of computer technology and management of information systems, concepts of systems analysis and problem-solving, and extensive hands-on experience with various microcomputer software packages. Equivalent to MIS-610. Prerequisite: take MIS-2101.

MIS-6580 Information Security (3.00 cr.)

Explores fundamental concepts in information security. Topics include elementary cryptography, threats and countermeasures on stand alone computer systems, database security, network security, and administering security. Equivalent to MIS-580. Prerequisite: take MIS-3601 or CPSC-4342.

MIS-6801 Information Security Policy and Management (3.00 cr.)

Explores policy and management aspects of information security to protect computer systems and networks. Topics include security models, policy, planning, risk analysis and management, operations security, physical, personnel and administrative security, access control, security evaluation, life cycle management, software security guidelines, network security guidelines, auditing and monitoring, and legal and ethical issues. Equivalent to MIS-581. Prerequisite: take MIS-4580 or CPSC-4580.

MIS-7101 Information Systems and Technology (3.00 cr.)

Prepares for innovative and effective use of management information systems/information technology. Examines the manners of providing solutions to business problems and opportunities to companies by increasing productivity, increasing the quality of goods and services, and enabling business process reengineering. Equivalent to MIS-800. Prerequisite: take MGMT-6100.

MIS-7201 Systems Analysis and Design (3.00 cr.)

Introduction to systems analysis and design as methods for extracting user needs and developing of a working computer-based system. Equivalent to MIS-801. Prerequisite: take MIS-7101.

MIS-7401 Database Development and Application (3.00 cr.)

Introduction to development and implementation of databases and use of database management systems. Several commercial software packages will be reviewed. A major development project will provide hands-on experience with at least one particular database package. Equivalent to MIS-820. Prerequisite: take MIS-7101.

MIS-7411 Web-Enabled Database Systems (3.00 cr.)

Creation of real-world, dynamic websites that overcome the limitations of traditional static HTML websites using scripting languages and relational database management. Focus is on web-based shopping cart applications, which are essentially sales order processing systems using a web browser. Equivalent to MIS-824. Prerequisite: take MIS-7401.

MIS-7601 Information Technology Infrastructure (3.00 cr.)

Explores topics related to both computer and systems architecture and communication networks, with an overall focus on the services and capabilities that IT infrastructure solutions enable in an organizational context. Equivalent to MIS-840. Prerequisites: take ACCT-6100, ECON-6100, MGMT-6100, MGMT-6700.

MIS-7611 Internetworking and Network Applications (3.00 cr.)

Topics include wireless LAN organizations, standards, and competing technologies; radio frequency behaviors; spread spectrum concepts; infrastructure devices; antenna categories, concepts, and installation; 802.11 network architecture; interframe spacing, RTS/CTS, and modulation; wired equivalent privacy (WEP) and wireless LAN security; and RF site survey fundamentals. Equivalent to MIS-844. Prerequisite: take MIS-7101.

MIS-7621 Wireless Communications (3.00 cr.)

An overview of cellular telephones, including regulatory framework, RF design, and frequency reuse, signaling, and wireless interconnection issues. Personal Communication Systems (PCS), mobile radio, satellite, and paging systems will also be covered. Equivalent to MIS-847. Prerequisite: take MIS-7601.

MIS-7650 Managing Information in the Public Sector (3.00 cr.)

Provides public and non-profit managers with capabilities and strategies to evaluate, participate, and/or lead an IT project to improve or even transform the business of government. Prerequisite: take PADM-7100.

MIS-7700 ERP Systems (3.00 cr.)

Focuses on integrating business processes in an enterprise resource planning (ERP) system. Students will experience both the end-user and configuration perspectives of an ERP system implementation. Prerequisites: take ECON-6100, MGMT-6100, MGMT-6700, ACCT-6100.

MIS-7801 Strategies in Internet Commerce (3.00 cr.)

Provides balanced coverage of both the business technology elements of electronic commerce (EC). Topics include e-business models, Internet marketing; online monetary transactions; legal, ethical, and social issues; computer and network security; and hardware, software, and communication technology for EC. In addition, students will create personal and business websites using Microsoft FrontPage. Equivalent to MIS-860. Prerequisite: take MIS-7101.

MIS-8011 Advanced Topics in Management Information Systems (3.00 cr.)

This course offers the student the opportunity to study an advanced current topic in this rapidly changing field. Equivalent to MIS-799.

MIS-8401 Artificial Intelligence Systems for Management (3.00 cr.)

Provides an overview of the broad field of artificial intelligence (AI) as it applies to managerial functions. Management applications of AI are considered in terms of their function and structure, and representative systems are examined. Includes exposure to management support systems, group support systems, and executive information systems, hands-on development of a managerial decision support system, and expert system. Specific considerations of how to recognize and apply appropriate AI technology to a management problem. Equivalent to MIS-850. Prerequisite: take MIS-7101.

MIS-8701 Independent Study (1.00-3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in management under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation in management information systems and an instructor to sponsor the work. Equivalent to MIS-870.

MIS-8979 Advanced Information Systems (3.00 cr.)

Covers current topics in MIS based on emerging technologies including issues related to several areas such as business environment, technology, globalization, politics, ethics, legal, regulatory, and demographic diversity. The role of MIS in those areas will be addressed. This course requires advisor permission to enroll. Equivalent to MIS-893.

MIS-8989 Graduate Project (3.00 cr.)

Student must complete an original project within the guidelines as set forth by three faculty members (of the student's choice). Student must choose a project chairperson who agrees to the student's area of interest. Together, the chairperson and student will select two additional faculty members who are interested in this project. Equivalent to MIS-895.

MIS-8999 Graduate Research Thesis (6.00 cr.)

Student must complete original research within the guidelines as set forth by three faculty members (of the student's choice). Student must choose a research chairperson who agrees to the student's area of interest. Together, the chairperson and student will select two additional faculty members who are interested in this topic of research. Equivalent to MIS-890.

Marketing

MKTG-2100 Introduction to Marketing Management (3.00 cr.)

Introduce marketing theory and concepts. Emphasize the role of each element of the marketing mix (e.g., product, price, promotion, and distribution) in different product situations and volatile marketing environment. Focus on the development of marketing mix, to ensure the successful future positioning or launch of new products and services. Equivalent to MKTG-301, MKTG-3100.

MKTG-3200 Consumer Behavior (3.00 cr.)

Draws on the behavioral sciences to provide insight into consumer needs, wants, and behavior in the marketplace. Emphasizes how the manager in business and non-business organizations can build an understanding of the individual consumer into the marketing decisions of goods and/or services. Provides an overview of the role of consumer research. Equivalent to MKTG-320. Prerequisite: take MKTG-2100.

MKTG-4200 Promotional Strategies (3.00 cr.)

Considers the development and implementation of the various elements of the marketing communications program. Advertising, personal selling, publicity, public relations, and sales promotion are examined as the base for developing effective policies and strategies for communicating with markets. Opportunities are provided to examine the marketing communications problems of non-business as well as business operations. Equivalent to MKTG-450. Prerequisite: take MKTG-2100.

MKTG-4300 Marketing Research (3.00 cr.)

Studies the research process as an aid to planning and decision-making in marketing management. Topics include the role of research and information systems in defining and planning research needs, obtaining marketing information, and identifying target markets. Attention also given to product and advertising research and market and sales analysis. Equivalent to MKTG-460. Prerequisites: take MKTG-2100, STAT-2700.

MKTG-4400 Marketing Channel Management (3.00 cr.)

Deals with the role of distribution in the marketing mix of product, price, and promotion, with emphasis on channel structure and logistical decisions. Topics include exchange and market intermediaries, types of channels and their use, structure of retailing and wholesaling, selectivity and the degree of directness in channel decisions, customer service decisions, inventory management, transportation modes, warehousing decisions, and sales forecasting. Lectures will be supplemented by problems and/or cases. Equivalent to MKTG-440. Prerequisite: take STAT-2700 MKTG-2100.

MKTG-4500 Managing Market Strategies (3.00 cr.)

Considers the need to generate and evaluate product and price strategies. Topics typically include market analysis, market segmentation and positioning, market measurement and forecasting, product life cycles, new product, product line and portfolio decisions, brand and warranty decisions, pricing for seasonal demand shifts, pricing to deter entry of rivals, pricing for segmented markets and for multi-market and multi-product firms, internal pricing, after-product pricing, and psychological considerations in retail pricing. Lectures are supplemented by problems, cases, and/or a simulation exercise. Equivalent to MKTG-430. Prerequisite: take MKTG-2100.

MKTG-4600 International Marketing Strategies (3.00 cr.)

Marketing management of international operations. Focuses on specific managerial decisions encountered in marketing in different cultures. Equivalent to MKTG-445. Prerequisite: take MGMT-4600.

MKTG-4800 Independent Study (3.00 cr.)

Independent study is intended to provide better students with the opportunity to study a topic of their choice in marketing under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within marketing and an instructor to sponsor the work. Equivalent to MKTG-470.

MKTG-4880 Internship (3.00 cr.)

Designed to provide marketing students with supervised practical experiences in applied settings. Equivalent to MKTG-480.

MKTG-5400 Business to Business Marketing (3.00 cr.)

Examines planning, organizing, and controlling organizational marketing activities. Studies new products and services and how they are marketed. Includes classification of products and customers, buying procedures, applications of new product development and planning procedures, sales engineering, marketing research, pricing practices, promotion applications, logistics, after sale service, and other topics. Equivalent to MKTG-572. Prerequisite: take MKTG-2100.

MKTG-5500 Marketing for Non-Profit Organizations (3.00 cr.)

An introduction to marketing concepts and tools and their applications to nonprofit organizations. Compares and contrasts different aspects of non-business and business marketing. Considers the impact of publics and the environment in developing non-business marketing programs. Equivalent to MKTG-580. Prerequisite: take MKTG-2100.

MKTG-7100 Strategic Marketing (3.00 cr.)

Reviews the marketing decision process with emphasis on recognition and analysis of marketing problems, generation and evaluation of alternative solutions, and development of plans and strategies for implementing chosen solutions. Provides an overview of current issues and developments in marketing. Equivalent to MKTG-801. Prerequisites: take ECON-6100, MGMT-6100, MGMT-6700.

MKTG-8000 Selected Contemporary Issues in Marketing (1.00-3.00 cr.)

A graduate seminar exploring contemporary issues in the field of marketing. May be repeated for credit with different topics. Equivalent to MKTG-850.

MKTG-8200 Buyer Behavior (3.00 cr.)

Review of the literature of buyer behavior with emphasis on central concepts and methods. An advanced treatment of motivations, perceptions, demographics, buyer search for information, models of buyer behavior, consumerism, and public policy is provided. Equivalent to MKTG-805. Prerequisite: take MKTG-4500 or MKTG-7100.

MKTG-8300 Marketing Information: Methods and Analysis (3.00 cr.)

An advanced treatment of the various methods in which a marketing research problem can be addressed. Develops recognition and appreciation of the environmental factors and their impact on marketing information. Focuses on the creative application and critical evaluation of the procedures of marketing information through the use of case method and research projects. Equivalent to MKTG-810. Prerequisite: take MKTG-4300 or MKTG-7100.

MKTG-8600 International Marketing (3.00 cr.)

Examines the role of marketing in economic development. Covers several contemporary issues in international marketing, including the impact of multi-national corporations on the world economy. Discusses different techniques of entering international markets, the basic elements underlying the development of an international marketing mix, and the forms of organization used in international marketing. Equivalent to MKTG-820. Prerequisite: take MKTG-7100.

MKTG-8800 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in marketing under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within marketing and an instructor to sponsor the work. Equivalent to MKTG-870.

MKTG-8880 Internship (3.00 cr.)

Designed to provide marketing students with supervised, practical experiences in applied settings. Equivalent to MKTG-880.

MKTG-8890 Graduate Thesis/Project (3.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of two faculty in the College of Business and Public Administration and approved by the dean. Students interested in pursuing a doctorate in business should select the thesis option. Equivalent to MKTG-890.

Mathematics

MATH-1423 College Algebra (3.00 cr.)

Review of algebra, including factoring and operations with polynomials; exponents and radicals; first and second degree equations and inequalities; absolute value; rational, exponential, logarithmic, inverse functions, and graphs. Designed to prepare students for statistics and/or applied calculus courses. Equivalent to MATH-325.

MATH-2131 Mathematical Structures and Concepts I (3.00 cr.)

An introductory, content-oriented mathematics course, including problem-solving, sets, numeration systems, integers, rational numbers, ratios, and proportions. Equivalent to MATH-320.

MATH-2137 Mathematical Foundations (3.00 cr.)

Introduces formulating mathematical solutions to problems from real life applications. Covers geometry, counting techniques and probability, graph theory, logic and set theory, mathematics of finance, and statistics. Focuses on the improvement of student's problem solving and reasoning skills. Equivalent to MATH-335.

MATH-2141 Mathematical Structures and Concepts II (3.00 cr.)

Topics include informal logic, problem-solving, informal geometry, transformation geometry, tessellations, measurement, probability, and statistics. Equivalent to MATH-322. Prerequisite: take MATH-2131.

MATH-2221 Precalculus (4.00 cr.)

Covers fundamental concepts of functions, their graphs and applications. Emphasizes elementary functions, namely algebraic and transcendental functions, particular polynomials and rational functions, trigonometric functions, and exponential and logarithmic functions. Covers concepts and calculations of composite and inverse functions. Equivalent to MATH-350. Prerequisite: take MATH-1423.

MATH-2281 Applied Calculus (3.00 cr.)

A survey course for business students and others needing only one course in calculus. Covers basic concepts, methods, and applications of differential and integral calculus. The entering student should have a solid command of algebraic and graphical methods. Theory is presented and illustrated with examples drawn from business, economics, and natural systems. The course provides a foundation for more advanced courses in calculus, economics, science, and operations research. Equivalent to MATH-355. Prerequisite: take MATH-1423.

MATH-3109 Finite Mathematics (3.00 cr.)

Introduces mathematical modeling and applications, including functions and graphs, systems of linear equations, matrices, systems of inequalities, geometric and simplex-method approaches to linear programming, mathematics of finance, difference equations (recurrence relations), sets, partitions, tree diagrams, permutations, combinations, probability, random variables, statistics, Markov chains, and logic. Equivalent to MATH-336. Prerequisite: take MATH-1423.

MATH-3137 Discrete Mathematics (3.00 cr.)

An introduction to mathematical induction, sets, relations, functions, Venn diagrams, truth tables, propositional calculus, combinatorics, graphs, directed graphs, Boolean algebra, lattices, difference equations, recursion, discrete probability, random numbers, queues, algorithms, and representations of algorithms. Equivalent to MATH-340. Prerequisite: take MATH-1423.

MATH-3220 Calculus I (4.00 cr.)

Introduces calculus and analytic geometry including limits, basic techniques of differentiation and integration with applications involving curve sketching, optimization, and areas in a plane. Presents the Fundamental Theorem of Calculus and Riemann integrals. Equivalent to MATH-390, MATH-3290. Prerequisite: take MATH-1423.

MATH-3229 Calculus II (4.00 cr.)

Examines calculus and analytic geometry including volumes of revolutions, basic integration formulas, partial fractions, trig substitutions, exponential and logarithmic functions, improper integrals, conics, polar coordinates, and graphs. Equivalent to MATH-391. Prerequisite: take MATH-3220.

MATH-3259 Calculus III (4.00 cr.)

Explores calculus and analytic infinite series, power series, Taylor and Maclaurin series, 3D coordinate systems, vectors, vector functions, functions of several variables, partial derivatives, double and triple integrals with applications. Equivalent to MATH-392. Prerequisite: take MATH-3229.

MATH-3271 Differential Equations (3.00 cr.)

A basic course in differential equations covering existence, uniqueness, homogeneous equations, first order and simple higher order equations, linear constant coefficient equations, and simultaneous equations. Introduction to numerical analysis concepts and available computer packages for numerical solutions. Equivalent to MATH-455. Prerequisite: take MATH-3229.

MATH-3331 Geometry (3.00 cr.)

Covers topics in geometry selected from modern elementary geometry, including transformations, Euclidean constructions, introduction to projective and non-Euclidean geometries and geometric aspects of plane trigonometry. Equivalent to MATH-330.

MATH-3449 Linear Algebra (3.00 cr.)

An introduction to linear algebra and matrices. Topics include systems of equations, determinants, vector spaces, subspaces, linear independence and bases, linear transformations and matrices, rank, nullity, diagonalization, and quadratic forms. Includes discussion of applications of matrices in economics, linear programming, graph theory, game theory, statistics, and/or numerical analysis. Equivalent to MATH-440. Prerequisite: take MATH-1423.

MATH-4133 Number Theory (3.00 cr.)

A study of the properties of whole numbers: divisibility, primes, modular arithmetic, secret codes, hashing functions, quadratic reciprocity, sums of squares, continued fractions, Diophantine equations, Pell's equation, square-triangular numbers, errors in finite-precision arithmetics using pocket calculators and computers, Fermat's Last Theorem, and related topics. Equivalent to MATH-465. Prerequisite: take MATH-3137 or MATH-3449.

MATH-4171 History of Mathematics (3.00 cr.)

Covers mathematics and mathematicians from ancient to modern times, including the development of number theory, geometry, algebra, trigonometry, analysis, probability, topology, philosophy of mathematics, and the relationship of mathematics to other activities, including music, art, science, technology, and commerce. Equivalent to MATH-505. Prerequisites: take MATH-3229, MATH-3137.

MATH-4229 Advanced Calculus (3.00 cr.)

An optional fourth semester in the calculus sequence, advanced calculus provides a culminating calculus course which introduces the theoretical underpinnings of calculus, including axiomatic approaches to the real number system and theory of integration, as well as delving more deeply into advanced topics such as Taylor series, Stokes' and Green's theorems, etc. Equivalent to MATH-490. Prerequisite: take MATH-3259.

MATH-4241 Analysis I: Real Variables (3.00 cr.)

Covers proof-oriented survey of the real number system, real number sequences, limits of functions, continuity, differentiability, integrability, sequences, and infinite series, Taylor series, convergence in Euclidean spaces, metric spaces, derivatives and integrals on \mathbb{R}^n , and vector calculus. Equivalent to MATH-472. Prerequisite: take MATH-3259.

MATH-4243 Analysis II: Complex Variable (3.00 cr.)

Introduces complex analysis topics including complex numbers and functions of one complex variable, analytic functions and Cauchy-Riemann Equations, harmonic functions, elementary functions of one complex variable, contour integrals, Cauchy's Integral Theorem, Taylor and Laurent series, theory of residues, and Riemann Sphere. May discuss conformal mappings analytic continuation, Riemann Surfaces, Mittag-Leffler expansion of meromorphic functions. Equivalent to MATH-474. Prerequisite: take MATH-3259.

MATH-4337 Modern Geometry (3.00 cr.)

Covers an axiomatic study of Euclidean Geometry. Introduces spherical, hyperbolic, and other non-Euclidean Geometries as well as, analytic geometry. Introduces projective geometry, planar symmetry and tessellations, fractals, and informal geometric topology. Requires exercises in the use of a computer, with Geometer's Sketch Pad and the Maple Computer Algebra System with an emphasis on mathematical proofs. Equivalent to MATH-337. Prerequisite: take MATH-3137.

MATH-4373 Topology (3.00 cr.)

Topology is a branch of mathematics that considers properties of geometric objects, in two, three, or more dimensions that are unaffected by continuous deformation. This course offers an introduction to topology, covering its interesting aspects without too much mathematical formality. Topics covered include knot theory, theory of surfaces and manifolds, continuous functions and deformations, as well as point-set topology. Equivalent to MATH-531. Prerequisites: take MATH-3229, MATH-4337.

MATH-4451 Modern Algebra (3.00 cr.)

An introduction to algebraic structures and topics, including relations, operations, mappings, groups, rings, fields, homomorphisms, quotient structures, and polynomials. Equivalent to MATH-460. Prerequisite: take MATH-3137 or MATH-3449.

MATH-4557 Probability (3.00 cr.)

Provides an introduction to the theory of probability for students in mathematics, mathematics education, and science from a calculus basis. Presents a variety of applications covering diverse topics in addition to the development of the mathematics of probability theory. Equivalent to MATH-540. Prerequisite: take MATH-3229.

MATH-4621 Principles Operations Research (3.00 cr.)

Introduction to the principles and methods of operations research. Draws upon calculus, statistics, and probability as prerequisites. Topics include the systems approach, linear programming, queueing theory, inventory theory, decision analysis, PERT/CPM, integer programming, and simulation. Equivalent to MATH-450. Prerequisites: take MATH-3137 and take MATH-2281 or MATH-3220.

MATH-4637 Mathematics Laboratory (3.00 cr.)

Introduces the use of computer algebra systems and graphing calculators in algebra, trigonometry, statistics, calculus, and matrix algebra. Equivalent to MATH-393. Corequisite course: MATH-3220.

MATH-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in mathematics under the supervision of the faculty. Equivalent to MATH-470.

MATH-6171 History of Mathematics (3.00 cr.)

Covers mathematics and mathematicians from ancient to modern times, including the development of number theory, geometry, algebra, trigonometry, analysis, probability, topology, philosophy of mathematics, and the relationship of mathematics to other activities, including music, art, science, technology, and commerce. Equivalent to MATH-505. Prerequisites: take MATH-3137, MATH-3229.

MATH-6229 Advanced Calculus (3.00 cr.)

Provides a culminating experience in calculus while introducing the theoretical underpinnings of calculus, including axiomatic approaches to the real number system and theory of integration, as well as delving more deeply into advanced topics such as Taylor series, Stokes' and Green's theorems, etc. Prerequisite: take MATH-3259.

MATH-6337 Modern Geometry (3.00 cr.)

Covers an axiomatic study of Euclidean geometry. Introduces spherical, hyperbolic, and other non-Euclidean geometries as well as analytical geometry. Introduces projective geometry, planar symmetry and tessellations, fractals and informal geometric topology. Requires exercises in the use of a computer, with Geometer's Sketch Pad and the Maple computer algebra system with an emphasis on mathematical proofs. Equivalent to MATH-537. Prerequisite: take MATH-3137.

MATH-6373 Topology (3.00 cr.)

Topology is a branch of mathematics that considers properties of geometric objects, in two, three, or more dimensions that are unaffected by continuous deformation. This course offers an introduction to topology, covering its interesting aspects without too much mathematical formality. Topics covered include knot theory, theory of surfaces and manifolds, continuous functions and deformations, as well as point-set topology. Equivalent to MATH-531. Prerequisites: take MATH-3229, MATH-4337.

MATH-6449 Linear Algebra II (3.00 cr.)

Provides an in depth look at advanced topics in linear algebra from a geometric standpoint that includes real world applications. This second course provides a rigorous study of linear algebra with a strong emphasis on reasoning and proof. This course includes a student research project. Equivalent to MATH-642. Prerequisite: take MATH-3449.

MATH-6451 Modern Algebra (3.00 cr.)

Covers a rigorous study of abstract algebraic systems including groups, rings, and fields. This is a second course in modern algebra with a strong emphasis on reasoning and proof. This course includes a student research project. Equivalent to MATH-662. Prerequisite: take MATH-4451.

MATH-6557 Probability (3.00 cr.)

Provides an introduction to the theory of probability for students in mathematics, mathematics education, and science from a calculus basis. Presents a variety of applications covering diverse topics in addition to the development of the mathematics of probability theory. Equivalent to MATH-540. Prerequisite: take MATH-3229.

MATH-6637 Mathematics Laboratory (3.00 cr.)

Introduces the use of mathematics software and technology, including computer algebra systems (CAS), dynamic geometry software, statistical software, and graphing calculators in problem solving. Equivalent to MATH-593. Prerequisite: take MATH-3220.

MATH-7121 Combinatoric and Graph Theory (3.00 cr.)

Provides a foundation in the principles of combinatorics and graph theory with an emphasis on mathematical reasoning and proof. Prerequisite: take MATH-3137 or MATH-3449.

MATH-7211 Advanced Calculus for Educators (3.00 cr.)

Presents an advanced look at the theorems and concepts of calculus for those hoping to teach calculus at the Advanced Placement (AP) or college level. Topics include the development of limits and the derivative, integration and applications of the antiderivative, and a close examination of important theorems in calculus. Equivalent to MATH-721. Prerequisite: take MATH-3259.

MATH-7369 Differential Geometry (3.00 cr.)

Provides an in depth look at advanced topics in differential geometry. The study of topological spaces will be considered from a differential viewpoint. Topics include Riemann metrics, curvature, and the geometry of general manifolds. Prerequisites: take MATH-3449 and take MATH-4373, MATH-6373, or MATH-4229.

MATH-8117 History of Mathematical Ideas (3.00 cr.)

Concentrates on tracing the development of the history of mathematical ideas, rather than individuals and individual discoveries. Topics include the development of Algebra, Calculus, Geometry and Topology, Probability, and Combinatorics. This course includes a student presentation. Prerequisite: take MATH-3259.

MATH-8219 Topics in Analysis (3.00 cr.)

Presents an advanced look at the theorems and concepts of analysis. Topics will vary but may include the structure and topology of the real number system, Riemann integration, infinite series, continuity, and sequences and series.

MATH-8505 Advanced Probability (3.00 cr.)

Provides a calculus-based foundation in the principles and theories of probability and statistics with an emphasis on mathematical reasoning and proof. Prerequisite: take MATH-3259.

MATH-8523 Financial Mathematics (3.00 cr.)

Provides a calculus-based examination of financial mathematics and its applications. Prerequisite: take MATH-3259.

MATH-8900 Graduate Thesis Project (3.00 cr.)

Provides graduate mathematics students with the opportunity to synthesize and integrate their graduate work by developing and completing a research thesis or project. The subject of the thesis or project should be consistent with the student's goals and faculty expertise.

MATH-8950 Graduate Seminar (3.00 cr.)

Provides the opportunity to provide a seminar class, investigating a topic in mathematics. The seminar topic will provide evidence of the ability to understand and synthesize the chosen topic.

MATH-8990 Research Presentation (1.00 cr.)

Provides graduate mathematics students with the opportunity to present an oral and written account of their research/project, which will be evaluated by the research advisor and research committee. Writing format will follow theses/project guidelines for graduate work. The oral presentation will follow a format consistent with presentations of research papers at professional meetings and will be evaluated by the research advisor and research committee. Research presentations will be open to all students and faculty. Students should enroll during the final semester of their research of the semester of their graduation.

MATH-8999 Directed Scholarship (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must have received a grade of "CR" in the designated capstone course, MATH-8900. Note: This course is variable (1-2) in credit hours, repeatable (not replaceable) and is P/NC option.

Media Communications

MCOM-3220 Online Journalism (3.00 cr.)

Covers the social, cultural, political, legal, and economic issues involved in the online journalism of local, national, and international organizations, net-native news outlets, national public broadcasters, citizen-journalism sites, and coverage of world events. Compares the state of mainstream online journalism with citizen journalism including an ongoing discussion of the concept of public journalism.

MCOM-4040 Film Seminar (3.00 cr.)

Presents selected topics in film aesthetics, history, and genre analyses. May be repeated for credit with different topics. Equivalent to MCOM-540.

MCOM-4070 Media Workshop (3.00 cr.)

Produce a digital filmmaking project (group or individual) as a director, producer, cinematographer or editor. Equivalent to MCOM-5070, MCOM-570.

MCOM-4210 Theory and History of a Free Press (3.00 cr.)

Examines theories of a free press and evolution of the First Amendment. Considers contemporary notions of mass media freedoms, limits, and responsibilities, and relevance of Milton, Mill, Jefferson, and other free press thinkers to current media problems. Also considers media ethics. Equivalent to MCOM-510.

MCOM-4230 Reporting, Writing and Editing (3.00 cr.)

Explores basic news gathering, writing, reporting, and editing skills relevant in the areas of journalism and mass communication. Examines new policy problems and news selections process. Incorporates principles of copy reading, editing, writing captions and headlines for producing clear, concise, coherent, accurate, and thorough copy. Emphasizes practical experience. Equivalent to MCOM-5230, MCOM-530.

MCOM-4250 Writing for Print Media (3.00 cr.)

Presents basic skills relevant to working for weekly or daily newspapers, magazines, house organs, and public relations channels. Emphasizes conventional journalistic style and structure and includes editing, copy editing, and writing of captions and headlines. Equivalent to MCOM-450.

MCOM-4255 Broadcast Journalism (3.00 cr.)

Principles and practices for the broadcast journalist. Translates theory into practical experience by covering stories for radio and television. Laboratory experiences, including electronic news gathering (ENG), are an essential part of the course. Equivalent to MCOM-555.

MCOM-4260 Newswriting and Reporting (3.00 cr.)

Emphasizes interviewing and research skills. Covers speeches and meetings, single and multi-source articles. Equivalent to MCOM-550.

MCOM-4275 Media Planning and Management (3.00 cr.)

Emphasizes techniques, strategies, and problems of buying and selling advertising media time, and space. Explores the marketing mix, coordination of advertising with promotions and public relations, and the relationship between the client and agency. Incorporates mass media management issues dealing with organization, ownership, budgeting, research, production, equipment, markets, personnel, legal aspects, buying and selling of properties, business practices, and policies. Equivalent to MCOM-575. Prerequisites: take MCOM-4230, MCOM-4451, MCOM-4361.

MCOM-4291 Newspaper Practicum (1.00-3.00 cr.)

A practice-oriented course aimed at developing news processing and production skills. Theories of journalism along with the techniques of layout, design, style, headline writing, copy and photo editing, and dummy preparation for producing factual, concise copies for hard and online vehicles will be incorporated. Students are required to work with the student newspaper. Equivalent to MCOM-5291, MCOM-591. Prerequisite: take ENGL-3101.

MCOM-4361 Advertising and Society (3.00 cr.)

Provides a comprehensive overview of the advertising and the role and principles of advertising in the economic and communication systems. Explores the history, structure, and theory of advertising. Equivalent to MCOM-5361, MCOM-561. Prerequisite: take MCOM-4230.

MCOM-4379 Creative Strategies in Advertising and Public Relations (3.00 cr.)

Explores the creative principles dealing with the preparation of the advertising and public relations. Emphasizes conceptual thinking, research, copy writing, design process, development, and production of attention-grabbing promotional messages. Equivalent to COMS-579, COMS-5379.

MCOM-4451 Introduction to Public Relations (3.00 cr.)

Introduces the beginning student to the public relations profession and to the tools used by practitioners. Presents the history and philosophy of public relations, and trains the student in the techniques of preparing public relations plans to satisfy the needs of both private businesses and public institutions/organizations. Equivalent to MCOM-5451, MCOM-551. Prerequisite: take MCOM-4250.

MCOM-4452 Public Relations Case Studies (3.00 cr.)

Provides an in-depth study of several actual public relations cases. Exposes students to a series of imaginary public relations situations that permit students to develop their own solutions and approaches to the problems that have been related in the various scenarios. Equivalent to MCOM-552. Prerequisite: take MCOM-4451.

MCOM-4512 Media Communications Law (3.00 cr.)

Identifies, details, and evaluates various contemporary issues in media law from the perspective of the communicator. Includes free speech principles, First Amendment issues, libel, broadcast regulation, right of privacy, copyright, and fair trial/free press. Equivalent to MCOM-5512, MCOM-512.

MCOM-4520 Media and Society (3.00 cr.)

Surveys the development and influence of the mass media, including print, broadcasting, and film. Examines psychological, social, cultural, political, and economic impact of media. Equivalent to MCOM-420.

MCOM-4560 Women in the Media (3.00 cr.)

Examines historical and contemporary roles of women communicators-reporters, publishers, editors, broadcasters, and filmmakers. Analyzes image of women as expressed in American media, both general and women's media, from 17th century to present. Equivalent to MCOM-560.

MCOM-4565 Broadcasting in America (3.00 cr.)

Examines the development, structure, content, context, and influences of the broadcast media. Equivalent to MCOM-565.

MCOM-4567 Children and Television (3.00 cr.)

Explores children's television programming and its impact. Evaluates such programming in terms of its production quality, social values, and educational entertainment values. Identifies resources of children's television viewing in relation to development of the child. Equivalent to MCOM-567.

MCOM-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in media communications under the supervision of the faculty. Equivalent to MCOM-470.

MCOM-4715 Layout, Design and Production (3.00 cr.)

Explores theory and practice on the preparation of copy and illustration for newspaper, magazine, advertising, public relations and electronic publication. Incorporates fundamentals of desktop publishing, copyediting, headline writing, typography, layout, design, and use of photos. Equivalent to MCOM-515.

MCOM-4720 Audio Production (4.00 cr.)

Production in the audio medium. Students learn correct studio and remote production procedures, editing, and mixing on media laboratory equipment. Seven projects are produced for student portfolios. Equivalent to MCOM-520.

MCOM-4725 Desktop Publishing (3.00 cr.)

This course is intended to serve as an introduction to computerized graphic arts production for art, communications, and other majors. While the computer and desktop publishing software have put very powerful design and page layout tools into the hands of a broad range of users, few of these users have had any training in art, text, visual, and layout design. The result of this is often technically sophisticated but naive output. To help users of these technologies produce work that is both competent and imaginative, this course will serve as a survey of available production techniques, as well as a basic introduction to the principles of text, visual, and layout design. Equivalent to MCOM-5725, MCOM-525.

MCOM-4731 Screenwriting (3.00 cr.)

In-class exercises and take-home assignments in the writing of screenplay outlines, character descriptions, and scenes and sequences for film and television documentaries and dramas. Equivalent to MCOM-5731, MCOM-531. Prerequisite: take MCOM-4740.

MCOM-4732 Writing for Film and Video (3.00 cr.)

Advanced script-writing class for students who understand terminology, production fundamentals, and creating visual sequences for film. Equivalent to MCOM-532. Prerequisite: take MCOM-4731.

MCOM-4734 Video Production Editing (3.00 cr.)

Lab-based instruction and application of the theories and techniques of nonlinear digital video editing. Students conduct FireWire-based editing with DVCAM and Mini-DV source footage on Final Cut Pro platforms. Equivalent to MCOM-5734, MCOM-534. Prerequisite: take MCOM-4740.

MCOM-4735 Documentary Filmmaking (3.00 cr.)

Considers non-studio production using portable digital video equipment. Provides practical exercises in the development and production of independent broadcast documentaries. Equivalent to MCOM-5735, MCOM-535. Prerequisite: take MCOM-4740.

MCOM-4736 Producing (3.00 cr.)

The art of developing and financing film and television productions, including the optioning of media properties, employing above-the-line personnel, and securing the involvement of broadcasters and distributions. Equivalent to MCOM-536. Prerequisite: take MCOM-4740.

MCOM-4739 Advanced Television Production (4.00 cr.)

Emphasizes sophisticated uses of production skills in color facility. Particular attention is devoted to lighting, audio, and beginning post-production. Equivalent to MCOM-539. Prerequisite: take MCOM-4740.

MCOM-4740 Television Production (3.00-4.00 cr.)

Presents techniques in digital video production, including camera operation, lighting, and audio acquisition. Productions involve the designing, writing, and directing of short-form digital projects. Equivalent to MCOM-440.

MCOM-4741 American Cinema (3.00 cr.)

Offered in televised format only. A film studies course that covers American film history from the silent era to the present day. Students will learn how American films reflect and shape popular culture, the basic technical and critical vocabulary of motion pictures, how the technology of cinema relates to film art, the economic structure of the film industry, and how to watch films actively and critically. Equivalent to MCOM-541.

MCOM-4742 Film and TV Documentary (3.00 cr.)

Examines style and influence of key documentary filmmakers. Identifies film techniques used to document events. Analyzes issues in documentary filmmaking. Describes effects documentary film has on perception of events and issues. Equivalent to MCOM-542. Prerequisite: take MCOM-4740.

MCOM-4746 Advanced Video Editing (3.00 cr.)

Advanced video editing techniques for students who have completed basic video production and editing. Students will work in Media Lab with computer editor, video toaster, and A/B roll equipment. Equivalent to MCOM-546. Prerequisites: take MCOM-4740, MCOM-4734.

MCOM-4748 On-Air Performance (3.00 cr.)

Provides students with direction and constructive critique of on-mike and on-camera performance and affords non-performers an awareness of the problems faced by on-air talent. Equivalent to MCOM-5748, MCOM-548.

MCOM-4777 Cinematography (3.00 cr.)

The art and techniques of cinematography as they relate to applied camera operation and lighting. the principles of the image making process, including still and motion picture photography. Equivalent to MCOM-577. Prerequisites: take MCOM-4720, MCOM-4735, MCOM-4740.

MCOM-4800 Internship (1.00-4.00 cr.)

Designed to provide the media communications student with supervised practical experiences in applied settings, both on and off campus. Students may work in specialized areas in Governors State University's Digital Learning and Media Design Department. May be repeated. Equivalent to MCOM-480.

MCOM-4968 Senior Seminar (3.00 cr.)

The capstone undergraduate course presents discussions of contemporary communication issues, as well as group and individual student projects. Equivalent to MCOM-468.

MCOM-5005 Media Symposium (1.00 cr.)

A workshop exploring selected issues in depth. Faculty of the media program are joined by media professionals, social critics, community leaders, and public officials, as well as other university faculty. Equivalent to MCOM-505.

MCOM-5702 Digital Film Production (3.00 cr.)

Discusses entire digital filmmaking process for short film (narrative and experimental) including pre-production, production, and post-production. Requires students to complete individual projects as directors by the end of the semester. Equivalent to MCOM-502.

MCOM-6040 Film Seminar (3.00 cr.)

Presents selected topics in film aesthetics, history, and genre analyses. May be repeated for credit with different topics. Equivalent to MCOM-540.

MCOM-6070 Media Workshop (3.00 cr.)

Produce a digital filmmaking project (group or individual) as a director, producer, cinematographer or editor. Equivalent to MCOM-5070, MCOM-570.

MCOM-6255 Broadcast Journalism (3.00 cr.)

Principles and practices for the broadcast journalist. Translates theory into practical experience by covering stories for radio and television. Laboratory experiences, including electronic news gathering (ENG), are an essential part of the course. Equivalent to MCOM-555.

MCOM-6275 Media Planning and Management (3.00 cr.)

Emphasizes techniques, strategies, and problems of buying and selling advertising media time, and space. Explores the marketing mix, coordination of advertising with promotions and public relations, and the relationship between the client and agency. Incorporates mass media management issues dealing with organization, ownership, budgeting, research, production, equipment, markets, personnel, legal aspects, buying and selling of properties, business practices, and policies. Equivalent to MCOM-575. Prerequisites: take MCOM-4230, MCOM-4451, MCOM-4361.

MCOM-6291 Newspaper Practicum (1.00-3.00 cr.)

A practice-oriented course aimed at developing news processing and production skills. Theories of journalism along with the techniques of layout, design, style, headline writing, copy and photo editing, and dummy preparation for producing factual, concise copies for hard and online vehicles will be incorporated. Students are required to work with the student newspaper. Equivalent to MCOM-5291, MCOM-591. Prerequisite: take ENGL-3101.

MCOM-6355 Seminar in Advertising and Public Relations (3.00 cr.)

Explores key aspects of advertising and public relations research and theory. Focuses on aspects of consumer behavior and psychology, culture, political communication, contemporary issues, problems, and challenges through guided discussion and analysis of case studies. Equivalent to MCOM-655.

MCOM-6361 Advertising and Society (3.00 cr.)

Provides a comprehensive overview of the advertising and the role and principles of advertising in the economic and communication systems. Explores the history, structure, and theory of advertising. Equivalent to MCOM-5361, MCOM-561. Prerequisite: take MCOM-4230.

MCOM-6451 Introduction to Public Relations (3.00 cr.)

Introduces the beginning student to the public relations profession and to the tools used by practitioners. Presents the history and philosophy of public relations, and trains the student in the techniques of preparing public relations plans to satisfy the needs of both private businesses and public institutions/organizations. Equivalent to MCOM-5451, MCOM-551. Prerequisite: take MCOM-4250.

MCOM-6479 Creative Strategies in Advertising and Public Relations (3.00 cr.)

Explores the creative principles dealing with the preparation of the advertising and public relations. Emphasizes conceptual thinking, research, copy writing, design process, development, and production of attention-grabbing promotional messages. Equivalent to COMS-579, COMS-5379.

MCOM-6512 Media Communications Law (3.00 cr.)

Identifies, details, and evaluates various contemporary issues in media law from the perspective of the communicator. Includes free speech principles, First Amendment issues, libel, broadcast regulation, right of privacy, copyright, and fair trial/free press. Equivalent to MCOM-5512, MCOM-512.

MCOM-6560 Women in the Media (3.00 cr.)

Examines historical and contemporary roles of women communicators-reporters, publishers, editors, broadcasters, and filmmakers. Analyzes image of women as expressed in American media, both general and women's media, from 17th century to present. Equivalent to MCOM-560.

MCOM-6565 Broadcasting in America (3.00 cr.)

Examines the development, structure, content, context, and influences of the broadcast media. Equivalent to MCOM-565.

MCOM-6720 Audio Production (4.00 cr.)

Production in the audio medium. Students learn correct studio and remote production procedures, editing, and mixing on media laboratory equipment. Seven projects are produced for student portfolios. Equivalent to MCOM-520.

MCOM-6730 Directing Drama for TV and Film (3.00 cr.)

The art and craft of directing dramatic film and television productions, including exercises in critical viewing, the drafting of shot lists and story boards, and activities such as blocking actions, shot composition, and continuity directing in a studio environment. Equivalent to MCOM-630. Prerequisites: take MCOM-4740, MCOM-5731.

MCOM-6731 Screenwriting (3.00 cr.)

In-class exercises and take-home assignments in the writing of screenplay outlines, character descriptions, and scenes and sequences for film and television documentaries and dramas. Equivalent to MCOM-5731, MCOM-531. Prerequisite: take MCOM-4740.

MCOM-6732 Writing for Film and Video (3.00 cr.)

Advanced script-writing class for students who understand terminology, production fundamentals, and creating visual sequences for film. Equivalent to MCOM-532. Prerequisite: take MCOM-4731.

MCOM-6734 Video Production Editing (3.00 cr.)

Lab-based instruction and application of the theories and techniques of nonlinear digital video editing. Students conduct FireWire-based editing with DVCAM and Mini-DV source footage on Final Cut Pro platforms. Equivalent to MCOM-5734, MCOM-534. Prerequisite: take MCOM-4740.

MCOM-6735 Documentary Filmmaking (3.00 cr.)

Considers non-studio production using portable digital video equipment. Provides practical exercises in the development and production of independent broadcast documentaries. Equivalent to MCOM-5735, MCOM-535. Prerequisite: take MCOM-4740.

MCOM-6736 Producing (3.00 cr.)

The art of developing and financing film and television productions, including the optioning of media properties, employing above-the-line personnel, and securing the involvement of broadcasters and distributions. Equivalent to MCOM-536. Prerequisite: take MCOM-4740.

MCOM-6739 Advanced Television Production (4.00 cr.)

Emphasizes sophisticated uses of production skills in color facility. Particular attention is devoted to lighting, audio, and beginning post-production. Equivalent to MCOM-539. Prerequisite: take MCOM-4740.

MCOM-6741 American Cinema (3.00 cr.)

Offered in televised format only. A film studies course that covers American film history from the silent era to the present day. Students will learn how American films reflect and shape popular culture, the basic technical and critical vocabulary of motion pictures, how the technology of cinema relates to film art, the economic structure of the film industry, and how to watch films actively and critically. Equivalent to MCOM-541.

MCOM-6742 Film and TV Documentary (3.00 cr.)

Examines style and influence of key documentary filmmakers. Identifies film techniques used to document events. Analyzes issues in documentary filmmaking. Describes effects documentary film has on perception of events and issues. Equivalent to MCOM-542. Prerequisite: take MCOM-4740.

MCOM-6746 Advanced Video Editing (3.00 cr.)

Advanced video editing techniques for students who have completed basic video production and editing. Students will work in Media Lab with computer editor, video toaster, and A/B roll equipment. Equivalent to MCOM-546. Prerequisites: take MCOM-4740, MCOM-4734.

MCOM-6748 On-Air Performance (3.00 cr.)

Provides students with direction and constructive critique of on-mike and on-camera performance and affords non-performers an awareness of the problems faced by on-air talent. Equivalent to MCOM-5748, MCOM-548.

MCOM-6760 Corporate and Nontraditional Broadcasting/Non-Broadcast Television Operations (3.00 cr.)

Introduces the concepts of video, multi-media and emerging technologies; analyzing their use in non-traditional and corporate broadcasting for instruction, information, promotion, public relations and training. Examines media and Internet services provided by departments in businesses, educational institutions, medical facilities and government (including the military). Equivalent to MCOM-660. Prerequisites: take MCOM-4740, IFDI-5702.

MCOM-6777 Cinematography (3.00 cr.)

The art and techniques of cinematography as they relate to applied camera operation and lighting. the principles of the image making process, including still and motion picture photography. Equivalent to MCOM-577. Prerequisites: take MCOM-4720, MCOM-4735, MCOM-4740.

MCOM-7051 Journalism Seminar (3.00 cr.)

Examines a selected topic in journalism. Covers aspects of online and new media reporting, writing, and production. Emphasizes techniques for information gathering through interviews and scientific data collection and exploration of conceptual subjects. Topics vary by term. Equivalent to MCOM-751.

MCOM-7455 Media Management (3.00 cr.)

Examines management of broadcasting, cablecasting, and corporate media. Focuses on management functions in various-sized markets, including personnel, programming, community relations, and promotion. Also considers emerging challenges to managers, such as impact of new technologies, changing laws, and regulations. Equivalent to MCOM-755.

MCOM-7540 Trends in Communications Technologies (3.00 cr.)

Examines emerging communications technologies, applications and issues, including converging digital technologies and multi-media; the Internet and World Wide Web; communications satellites; video distribution systems including cable, video cassettes, and disks; and virtual reality. Also considers programming and content planned or available. Equivalent to MCOM-740.

MCOM-7725 Advanced Producing for Film and TV (3.00 cr.)

Students take on all the functions of the producer while undertaking the development of a feature film or television program. In addition to drafting a treatment, securing a property, and creating a budget and schedule, students develop a project that could become a feature production while attending the university or upon graduation. Equivalent to MCOM-725. Prerequisites: take MCOM-4735, MCOM-4740.

MCOM-7730 The Screenplay Project (3.00 cr.)

Intensive development and drafting of a feature dramatic or documentary screenplay project. Equivalent to MCOM-730. Prerequisite: take MCOM-4732.

MCOM-8003 Contemporary Issues (3.00 cr.)

A graduate seminar exploring a selected issue in media, communication, or popular culture. May be repeated for credit. Equivalent to MCOM-803.

MCOM-8030 Graduate Seminar in Media Communications (3.00 cr.)

Examines classic literature in mass communications as way of understanding origins and theoretical bases of the discipline, and as a way of assessing its current status. Considers the teaching of communications at various levels. Equivalent to MCOM-830.

MCOM-8700 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in media communications under supervision of faculty. Equivalent to MCOM-870.

MCOM-8800 Internship (1.00-4.00 cr.)

Designed to provide the media communications student with supervised practical experiences in applied settings, both on and off campus. Students may work in specialized areas in Governors State University's Digital Learning and Media Design Department. May be repeated. Equivalent to MCOM-880.

Media Studies

MST-2100 Introduction to Media Production (3.00 cr.)

Introduces the basic production techniques and broadcast concepts for video, internet streaming, multimedia, mobile, and emerging technologies. Examines the principles involved in production across platforms through hands-on production. Students apply skills learned on individual and collaborative productions.

MST-2101 Introduction to Media Studies (3.00 cr.)

Introduces students to the concepts and issues in the study of media including the “new” in new media technologies. Surveys the historical and material specificity of media technologies and resulting forms of social life. Engages students in critical debates on media, culture, and power and considers problems posed by new and old media objects and processes.

MST-2110 Media Forms (3.00 cr.)

Examines interrelated histories of media and technology (film, video, radio, Internet, electronic media) from the advent of print, through to digital computing, and into analogue, video, and the Internet. Emphasizes the influences of technology and functionality of the merging field of digital media on social, economic, political, and cultural systems in a global context.

MST-2120 Media Theory (3.00 cr.)

Examines media and emerging theoretical trends in western and non-western media thought. Considers the relevance of different theoretical approaches and methods, the problem of the Eurocentric nature of media theory, and questions assumptions of production, distribution, and reception. Examines the unique perspectives of the Chicago school of media theory.

MST-2130 Media Culture and Innovation (3.00 cr.)

Focuses on media and innovation in western and non-western emerging media cultures. Emphasises a foundational understanding of creative industries including media leaders, international media systems, culture policy, and world events, in the production of culture and innovation from the advent of film, through television, and into video and the Internet with a focus on contemporary media.

MST-3104 Playing Games (3.00 cr.)

Explores gaming. Whether we play board or multiplayer online games, gaming teaches collaborative problem solving, motivation, and strategic planning. Described as the sum total of all expressive mediums, some games are also as rich and meaningful as art and literature. Through substantial reading and gaming, students examine the evolution of gaming, the artistic, social, and economic impact of gaming and gaming practices.

MST-3110 Global Media Literacy (3.00 cr.)

Develop the ability to be critical about the media society, and understand how it is consumed and produced, as well as digital media forms, culture and dissemination. Emphasis is placed on the development of critical thinking skills and analysis skills useful for interpreting, producing, and criticizing global and international media.

MST-3212 Social Media (3.00 cr.)

Introduces literature about and direct experience of the new social media literacies. Emphasizes research foundations and practical methods to control attention, attitudes, and tools necessary for critical consumption of information, best practices of individual digital participation, and collective participatory culture, the use of collaborative media and methodologies, and the application of network know-how to like online. Prerequisites: take MST-2100, MST-2101 and take MST-2110, MST-2120, or MST-2130.

MST-3213 Future TV (3.00 cr.)

Investigates the intersection of television with emerging digital technologies, globalization of media, many-to-many publishing and examines the commercial, public service, and autonomous (independent) aspects of this changing medium. Prerequisites: take MST-2100, MST-2101 and take MST-2110, MST-2120, or MST-2130.

MST-3214 Chicagoland Media (3.00 cr.)

A fieldwork-intense exploration of the creative media industry in Chicago. Develop an understanding of the different forms, interrelated histories, leaders, business models, and approaches to making Chicagoland media unique and Chicago a major media center. Prerequisites: take MST-2100, MST-2101.

MST-3221 Social Design and Crowd Sourcing (3.00 cr.)

Emphasizes the study of socially and ecologically responsible design of products, tools, and community infrastructures. Global in focus, examines cases and practices of social design, the role of social design in political economy, connection with local and international systems of power, and information flow. Prerequisite: take MST-3212.

MST-3223 Virtual People, Gaming Practices (3.00 cr.)

Emphasizes the intellectual and conceptual underpinnings of online and virtual games by examining the sociological, philosophical, ethical, literary, technological, and economic aspects of design. Prerequisites: take MST-3110, COMS-4110 and take MST-2110, MST-2120, or MST-2130.

MST-3412 International Media Flow (3.00 cr.)

Examines the dynamics of the international and global flow of media. Focuses on understanding the dominant flows of media spread globally through the use of multi-national media conglomerates, as well as contra-media flows, and regional followings spread through transnational and geo-cultural networks.

MST-4220 Global Social Media and Change (3.00 cr.)

Explores the rise of social networking, its use to empower people, and the connectivity of mobile devices. Emphasizing the role of social media in systemic change from national revolution to international protests, local projects to global networks, and national to intergovernmental agency policy. Tracing contemporary origins of social media for change to current movements. Prerequisites: take MST-2101, COMS-4110, MST-3212.

MST-4420 Western Media Systems (3.00 cr.)

Examines the media systems in North America and Western Europe. Explores the development and the systems. Addresses the influence of cultural elements such as state involvement, partisanship, and journalism ethics on media systems and media event coverage.

MST-4431 Latin America Media Systems (3.00 cr.)

Examines issues related to major media channels (e.g., newspapers, television, Internet) in Latin America. Particular attention is given to governmental, economic, and cultural issues. Discusses issues such as gender, race, and cultural imperialism.

MST-4434 Asian Media Systems (3.00 cr.)

Examines Asian media systems in politics, cultural, and economic contexts. Utilizes case studies and conceptual frameworks to understand issues and forces that shape Asian information and entertainment systems.

MST-4440 Media Globalization (3.00 cr.)

Explore concepts and hot topics affected by globalization, focused on three main foci: understanding key globalization concepts, challenging the notion of media globalization's effects on the world, and exploring how media globalization affects the world's sense of morality.

MST-4745 Public Media (3.00 cr.)

Focuses on the development, role, and function of public media utilizing local and region outlets. Combines study and production within the context of public broadcast media. Builds on skills in writing and production leading to the production of quality public media oriented content. Prerequisite: take MST-3214.

MST-4990 Social Laboratory (3.00 cr.)

Emphasizes collaborative project development, design, management, and the launch of social design focused multimedia; this senior experiential project based course is designed for advanced undergraduate students in the Media Studies program and other majors.

MST-4991 Senior Seminar (3.00 cr.)

In this capstone undergraduate course, students demonstrate what they have learned during their college career and hone multimedia media communication, production, presentation, and distribution skills by developing a digital portfolio of their work and completing an in-depth exploration of a media industry or field of interest.

Music

MUS-3101 Understanding the Elements of Music (3.00 cr.)

Introduces music theory and describes basic fundamentals of music in everyday life. Provides a working knowledge of musical concepts, terminology, and musical structure. Explores the keyboard and basic elements of notation, scales, melody, harmony, and chord structure, including some basic composition. Equivalent to MUS-301.

MUS-3201 Rock and Roll History (3.00 cr.)

Examines the social and historical aspects of Rock and Roll music that represent elements of the cultural fabric, which shapes American society. Explores social trends and issues that are reflected in rock music by examining the various styles that encompass the genre. Investigates the influence of rock music on economic shifts, civil rights, technological advances, and entertainment. Equivalent to MUS-302.

MUS-3301 Survey of Music History (3.00 cr.)

Provides a basic understanding of what to listen for in music through exploring the historical periods and examining the types, forms, and styles of Western music literature. Approaches the history of music in a chronological framework with the Middle Ages and working through Renaissance, Baroque, classical, Romantic, and modern periods. Equivalent to MUS-303.

MUS-3401 20th Century Music (3.00 cr.)

Studies music during the early history of the twentieth century. Includes post-romanticism, impressionism, and nationalism. Equivalent to MUS-320.

MUS-4101 African-American Music (3.00 cr.)

Offered in both lecture and televised formats. A survey of various modes of musical expression characterizing the black man's contributions to American culture. Covers west African sounds (1619-1800), jazz, spiritual, gospel, and contemporary soul. Equivalent to MUS-410.

MUS-4201 An Introduction to the History of Jazz (3.00 cr.)

Surveys American jazz music from a historical and cultural context. Explores the various modes of musical expression characterizing the contributions made by Africans and African Americans to American culture. Covers early jazz of the nineteenth century to the postmodern era of today. Equivalent to MUS-412.

MUS-4501 Choral Performance (3.00 cr.)

Choral Performance is a class for all levels of singers. Students are required to perform in a concert at the end of the semester. Students will develop sight-singing skills; increase music literacy and music reading abilities; learn vocal diction in various languages; and gain confidence through public performance(s). Equivalent to MUS-5501.

MUS-4901 Choral Practicum (1.00 cr.)

Provides further experience and confidence in vocal performance for all levels of singers. Auditions may be required. Students are required to perform in public concert(s). May be repeated for credit. Equivalent to MUS-5901.

MUS-6501 Choral Performance (3.00 cr.)

Choral Performance is a class for all levels of singers. Students are required to perform in a concert at the end of the semester. Students will develop sight-singing skills; increase music literacy and music reading abilities; learn vocal diction in various languages; and gain confidence through public performance(s). Equivalent to MUS-5501.

MUS-6901 Choral Practicum (1.00 cr.)

Provides further experience and confidence in vocal performance for all levels of singers. Auditions may be required. Students are required to perform in public concert(s). May be repeated for credit. Equivalent to MUS-5901.

Nursing

NURS-3140 Conceptual Basis for Professional Nursing (3.00 cr.)

Emphasizes professional approaches to nursing practices and builds upon, rather than duplicates, education received in a pre-licensure nursing program. Focuses on a conceptual approach in exploring dimensions of practice and client care issues, reflecting nursing's strategic position and ability to influence decisions and policies relative to social, ethical, political, legal, and economic environments. Equivalent to NURS-304.

NURS-3150 Pathophysiology (3.00 cr.)

Provides an introduction to the etiology, pathogenesis, clinical manifestations, and treatment of disease, including fundamental pathophysiologic concepts; examination of specific disease mechanisms in the various body systems; and clinical application related to the processes of diagnosis, treatment, and prevention. Equivalent to NURS-305. Prerequisite: take NURS-3140.

NURS-3160 Gerontological Nursing (3.00 cr.)

Focuses on theory, research, and practice of nursing with aging adults. Explores physiological, psychological, social, spiritual, and cultural factors related to health and aging. Emphasizes the nursing process with aging adults and examines community resources that assist older adults to remain in their communities. Explores the interdisciplinary nature of gerontological theory and practice. Requires fieldwork. Equivalent to NURS-306. Corequisite course: NURS-3140.

NURS-3170 Basic Nursing Informatics (3.00 cr.)

Focuses on technological methods used by nurses in all areas of practice and education. Provides basic knowledge and skills in health care information management and patient care technology, critical for promoting a safe and quality environment for both patients and members of the health care team. Explores the use of technology in nursing education. Equivalent to NURS-307. Prerequisites: take NURS-3140, MIS-2101.

NURS-3300 Health Assessment (3.00 cr.)

Focuses on the development of skills in the physical, social, and psychological assessment of clients. Aspects of examination and diagnosis are explored. Equivalent to NURS-330. Prerequisite: take NURS-3150.

NURS-4110 Evidence-Based Research (3.00 cr.)

Emphasizes the application of nursing scholarship to nursing practice. The elements of the research process are utilized to appraise and translate scientific evidence to solve nursing practice issues. Focuses on critical thinking and writing skills that enable the student to develop competencies as a consumer of research, and sharing evidence of best practices with the inter-professional team. Equivalent to NURS-401. Prerequisites: take NURS-3140, STAT-4720.

NURS-4120 Public Health Promotion (3.00 cr.)

Emphasizes health promotion and disease and injury prevention for individuals, families, communities, and populations across the lifespan. The history, theory development, research, practice, and core functions of community health and mass casualty disasters are explored. Epidemiological, social, ethical, cultural, spiritual, political, economic, and legal factors related to health are also studied. Equivalent to NURS-402. Prerequisites: take NURS-3140, NURS-3150, NURS-3160, NURS-3170. Corequisite course: NURS-4130.

NURS-4130 Public Health Practicum (3.00 cr.)

Provides for the application of concepts, principles, processes and theoretical models as presented in NURS-402 to the clinical practice setting. Clinical experiences focus on expanding knowledge and skills to develop attitudes and values required to influence the direction of healthcare to individuals, families, populations and communities in an ever changing society. The first phase of the nursing process, assessment is used to identify diverse population characteristics, resource distribution and environmental, political, ethical and legal aspects affecting quality of life. Equivalent to NURS-403. Prerequisites: take NURS-3140, NURS-3150, NURS-3160, NURS-3300. Corequisite course: NURS-4120.

NURS-4501 Leadership for Patient Safety (3.00 cr.)

Emphasizes and integrates leadership and management skills relevant to the student's scope of practice. Selected theories and principles of management are analyzed in relation to their effects on clients, families, and co-workers. Basic leadership skills include the awareness of complex systems, and the impact of power, politics, policy and regulatory guidelines on these systems. Skills emphasized will include ethical and critical thinking, initiating and maintaining effective working relationships, use of mutually respectful communication and collaboration within interprofessional teams, care coordination, delegation, and conflict resolution strategies. Equivalent to NURS-450.

NURS-4701 Independent Study (1.00-3.00 cr.)

Independent reading, research, and/or project in nursing under the direction of faculty. Equivalent to NURS-470.

NURS-4801 Internship (1.00-8.00 cr.)

Designed to provide nursing students with faculty-supervised practical experiences in clinical settings. Equivalent to NURS-480.

NURS-5101 Special Topics in Nursing (1.00 cr.)

Readings, lecture, discussion, and group projects in areas of current interest to practicing nurses. Potential areas include genetic assessment, management of osteoporosis, critical care, and women's health. Focus will be placed on best practice concepts and new research. Equivalent to NURS-501. Prerequisite: take NURS-3300.

NURS-5500 Substance Abuse Issues in Healthcare (3.00 cr.)

Provides an introduction to the substance abuse concerns that have an impact on healthcare. Focuses on the interactions between healthcare professionals and their substance-abusing patients. Equivalent to NURS-550.

NURS-5510 Substance Abuse Screening in Healthcare (3.00 cr.)

Prepares healthcare professionals to screen and appropriately refer patients with suspected substance use disorders. Presents standardized screening instruments applied to cases across healthcare delivery systems. Explains basic principles of motivational interviewing to assist patients in developing a commitment to change. Equivalent to NURS-551. Prerequisite: take ADDS-5500 or NURS-5500.

NURS-5520 Disparity and Diversity in Substance Abuse (3.00 cr.)

Introduces the concept of health disparities as applied to substance abuse. Focuses on disparities in access to substance abuse care. Develops skills for intervening more effectively with a diverse group of patients. Equivalent to NURS-552. Prerequisite: take ADDS-5500 or NURS-5500.

NURS-5530 Substance Abuse Interventions in Nursing Practice (3.00 cr.)

Applies screening, intervention, and referral skills to sample cases drawn from varied patient groups and settings. Includes guidelines for working with impaired colleagues. Equivalent to NURS-553. Prerequisites: take NURS-5510, NURS-5520 and take ADDS-5500 or NURS-5500.

NURS-6145 Theoretical Perspectives for Advanced Practice Nursing (3.00 cr.)

Presents a systematic examination of concepts and theories appropriate for use in the advanced practice of theory-based nursing. Concepts of health promotion, illness prevention, and maintenance of function in client populations are synthesized into clinical practice models. Equivalent to NURS-745.

NURS-6150 Advanced Clinical Pathophysiology (3.00 cr.)

Provides for an analysis of mechanistic and regulatory deficits in altered physiological states. Emphasis is on foundations of disease as the basis for clinical intervention. Equivalent to NURS-750.

NURS-7180 Advanced Health Assessment (4.00 cr.)

Builds upon cognitive and assessment skills developed in a basic comprehensive physical assessment course. Focus is on interviewing and examining adult and pediatric clients to diagnose potential and actual health problems. Equivalent to NURS-780. Prerequisites: take NURS-6145, NURS-6150.

NURS-7181 Pharmacotherapy in Nursing (3.00 cr.)

Prepares the advanced practice nurse to manage and evaluate drug therapies used in the care of clients throughout the lifespan with acute and/or chronic conditions. Focuses on pharmacotherapeutics and the principles of pharmacokinetics and pharmacodynamics. Equivalent to NURS-781. Prerequisites: take NURS-6145, NURS-6150.

NURS-7182 Healthcare Policy and Nursing (3.00 cr.)

Provides for the examination of phases of the role of legislative process and phases of policy-making. Includes the analysis of the impact of biological, cultural, demographic, ecological, economic, ethical, psychological, social, and technological factors on various phases of policy-making. Emphasizes the influence, role, and responsibility of the nursing profession on policy activities in health and human service areas. Equivalent to NURS-782. Prerequisite: take NURS-6145.

NURS-8102 Clinical Issues in Adult Health (3.00 cr.)

Explores factors that affect the health status of adults within the context of health promotion, illness prevention, and maintenance of function. Key issues include human diversity in health and illness, self-care, and quality of life. Equivalent to NURS-802.

NURS-8103 Research in Adult Health (3.00 cr.)

Explores the development, status, and future trends and needs in nursing research. Emphasizes research critique, research utilization, and evidence-based practice in adult health nursing. Equivalent to NURS-803. Prerequisite: take NURS-8102.

NURS-8107 Adult Health and Illness I (5.00 cr.)

Applies advanced knowledge and skills of nursing, health assessment, pathophysiology, pharmacology, case management, and research in providing care for acutely ill adults. Equivalent to NURS-807. Prerequisite: take NURS-8102.

NURS-8108 Adult Health and Illness II (5.00 cr.)

Applies advanced knowledge and skills of nursing, health assessment, pathophysiology, case management, and research in providing care for adults who have chronic health problems that may produce episodes of crisis. An epidemiological process model is used to design and implement client care. Equivalent to NURS-808. Prerequisites: take NURS-8102, NURS-8103, NURS-8107.

NURS-8109 Young Family in Health and Illness (5.00 cr.)

Focuses on health assessment, pathophysiology, and pharmacology to promote health maintenance, to provide accurate disease diagnosis, and to apply appropriate evidence-based disease management in the care of the pregnant or pediatric/adolescent client as a family nurse practitioner. Equivalent to NURS-809. Corequisite course: NURS-8102.

NURS-8110 Aging Family in Health and Illness (5.00 cr.)

Application of advanced knowledge and skills in nursing, health assessment, pathophysiology, and pharmacology to promote health maintenance, to provide accurate disease diagnosis, and to apply appropriate evidence-based disease management in the care of the adult or geriatric client as a family nurse practitioner. Equivalent to NURS-810. Corequisite course: NURS-8102.

NURS-8210 Clinical Nurse Specialist in Adult Health (5.00 cr.)

Provides graduate students with field experiences to implement the role of the clinical nurse specialist. Students work with a variety of adult clients incorporating advanced practice models in healthcare settings with course faculty and clinical preceptor supervision. A needs assessment is conducted after which the student identifies a nursing problem for a project that will be implemented and evaluated in NURS-846, Adult Health Internship and Project. Equivalent to NURS-821. Prerequisites: take NURS-8103, NURS-8108.

NURS-8220 Seminar/Practicum in Family Nurse Practitioner Role (5.00 cr.)

Provides graduate students with further didactic education along with field experiences that enable the student to continue to develop and demonstrate growth in the implementation of the family nurse practitioner role. Students work with a variety of clients in the primary care setting with supervision of course faculty and a clinical preceptor. Equivalent to NURS-822. Prerequisites: take NURS-8109, NURS-8110.

NURS-8350 Nursing Administration I (3.00 cr.)

Explores history and trends in nursing administration. Emphasizes theoretical approaches to the process of nursing administration. Reviews common elements of administration within the organizational framework of nursing services as an integrated part of the healthcare delivery system. Analyzes essential nursing administration leadership and management skills. Equivalent to NURS-835. Prerequisite: take HLAD-7109.

NURS-8400 Nursing Financial Management (3.00 cr.)

Explores additional concepts of nursing service management including financial management and budget preparation, public relations, and marketing. Provides an overview of major aspects of nursing financial management, including topics such as healthcare economics, budgeting, cost analysis, and marketing. Equivalent to NURS-840. Prerequisites: take NURS-8102, NURS-8103, NURS-8350.

NURS-8550 Nursing Administration II Seminar (3.00 cr.)

Focuses on the synthesis of leadership concepts unique to the role of nurse administrator in the current healthcare environment. Focuses on advanced leadership topics of regulatory compliance, diversity, social issues, policy development, and disaster preparedness. Equivalent to NURS-855. Corequisite course: NURS-8956.

NURS-8610 Curriculum Development in Nursing (3.00 cr.)

Explores the curriculum development process from the perspective of nursing as a practice discipline. Equivalent to NURS-860.

NURS-8611 Instructional Methods in Nursing (3.00 cr.)

Provides an overview of traditional and activity-based teaching strategies, uses of technology, contemporary methods for clinical teaching, and the use of process education in nursing. Equivalent to NURS-861. Prerequisite: take NURS-8610.

NURS-8612 Measurement and Evaluation in Nursing Education (3.00 cr.)

Provides an overview of evaluation methods appropriate for use in academic nursing education programs. Equivalent to NURS-862. Prerequisite: take NURS-8611.

NURS-8675 Nursing Informatics Project Seminar (3.00 cr.)

Provides the graduate student with field experiences in implementing the role of informatics nurse specialist. Students work in selected health care settings serving minority and underserved populations incorporating advanced practice learning with a nursing or health information specialist and course faculty. A needs assessment is conducted and a plan is developed for a project to be implemented in NURS-876. Equivalent to NURS-875. Corequisite course: NURS-8976.

NURS-8701 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in nursing under the supervision of the faculty. Equivalent to NURS-870.

NURS-8775 Nursing Informatics Project Seminar (3.00 cr.)

Provides the graduate student with field experiences in implementing the role of informatics nurse specialist. Students work in selected health-care settings serving minority and underserved populations incorporating advanced practice learnings with a nursing or health information specialist and course faculty. A needs assessment is conducted and a plan is developed for a project to be implemented in NURS-8776. Corequisite course: NURS-8776.

NURS-8776 Nursing Informatics Project Practicum (3.00 cr.)

Provides the opportunity for synthesis, integration, and utilization of theories and concepts of nursing informatics in a practicum setting. Focuses on the implementation of the informatics nurse specialist role and the implementation and evaluation of the project plan developed in NURS-8775. Corequisite course: NURS-8775.

NURS-8800 Internship (1.00-8.00 cr.)

Designed to provide nursing students with supervised practical experiences in applied settings. Equivalent to NURS-880.

NURS-8900 Graduate Thesis/Project (1.00-8.00 cr.)

Provides practical experience with requirements of professional writing and documentation. Utilizes online and in person teaching strategies. Students complete individual writing assignments. Equivalent to NURS-890. Prerequisite: take NURS-7791.

NURS-8946 Adult Health Internship and Project (5.00 cr.)

Provides opportunities to actualize the CNS role. Students will be expected to enact the subroles and competencies of the CNS with a minimum of supervision by faculty. As a result of a needs assessment done in NURS-821, the students will implement and evaluate a project, which demonstrates the ability to create a nursing intervention to solve a clinical/managerial nursing problem. Equivalent to NURS-846. Prerequisite: take NURS-8210.

NURS-8947 Family Nurse Practicum/Intern/Project (5.00 cr.)

Opportunities to further actualize the family nurse practitioner role will be provided. Students will be expected to demonstrate continued growth and competency in direct patient care in the primary care setting, taking the responsibility to evaluate their competencies and seek out clinical experiences to broaden their base of expertise within the family nurse practitioner role with course faculty oversight and clinical preceptor supervision. The student will select a final in-depth analysis project related to a specific problem encountered in the primary care setting with a formal written report. This information will be used to prepare a poster for the final oral comprehensive presentation. Prerequisite: take NURS-8220.

NURS-8956 Nursing Administration Practicum (3.00 cr.)

Provides opportunities for synthesis, integration, and utilization of theory and concepts in a practicum setting. Focuses on the implementation of the role of nurse administrator in selected healthcare area. Equivalent to NURS-856. Corequisite course: NURS-8550.

Nursing – Doctorate of Nursing Practice

DNP-8171 Healthcare Leadership (3.00 cr.)

Explores leadership theories, principles, and innovative nursing leadership techniques. Focuses on systems thinking, values and ethics, legal issues, decision-making, organizational culture and climate, communication skills, succession planning, theories and leadership of change, creation of learning communities, professional accountability, and leadership within professional nursing organizations. Identifies qualities and behaviors associated with exemplary Nursing leadership. Equivalent to DNP-701.

DNP-8172 Diversity, Spirituality, and Social Issues (3.00 cr.)

Explores how spiritual beliefs, poverty, equality and class are related to the social constructs of race and ethnicity. Provides the student with the appropriate skills to implement comprehensive nursing care at an advanced practice level to persons with various beliefs, life experiences and circumstances. Equivalent to DNP-702.

DNP-8173 Policy, Power, and Politics in Nursing (3.00 cr.)

Examines influence, political action, and policy making in nursing. The roles of power, advocacy, activism, and mentorship are analyzed. Focuses on synthesizing and integrating current policy research into a comprehensive analysis, proposal development, and political action strategy for a societal healthcare issues that impact nursing practice in community, regional, or national context. Equivalent to DNP-703.

DNP-9180 Nursing Leadership Internship (2.00 cr.)

Provides opportunity to analyze the role of the nurse executive or leader, through a guided internship experience with experienced administrators and leaders. Focuses on the processes associated with systems level thinking. Includes designing a change project that will result in an organizational change impacting the quality of nursing and health care. Equivalent to DNP-800, NURS-800. Prerequisites: take DNP-8171, DNP-8172, DNP-8173, HLSC-7500, HLSC-8300, HLSC-8350 and take STAT-8260 or HLAD-7105. Corequisite course: DNP-9181.

DNP-9181 Advanced Evidence-Based Nursing Practice (3.00 cr.)

Provides strategies to utilize the research process to improve nursing practice. Focuses upon the application and integration of new knowledge from diverse resources and across disciplines. Emphasizes translation of research into practice, evaluation of practice and participation in collaborative practice. Equivalent to DNP-801. Prerequisites: take DNP-8171, HLSC-8300 and take STAT-8260 or HLAD-7105. Corequisite course: DNP-9180.

DNP-9280 Population Based Healthcare Delivery Systems (3.00 cr.)

Integrates and applies core competencies of health promotion and disease prevention. Includes concepts of evidence-based practice, clinical prevention, and population health services for individuals and aggregates. Epidemiological analysis, occupational, and environmental data will be utilized in the development, implementation, and evaluation of clinical prevention programs in infectious diseases, emergency/disaster-preparedness, and intervention strategies with populations. Equivalent to DNP-820. Prerequisites: take DNP-9180, DNP-9181, HLSC-8400 and take STAT-8260 or HLAD-7105.

DNP-9281 Risk Management in Population Health (3.00 cr.)

Integrates risk management of health needs of specific communities, with the use of risk assessment analysis. Analyzes influences on effectiveness of health promotion and disease prevention programs targeted to aggregates, families, communities and populations. Explores public health and other organizations that support the responsibilities of public health at the local, national, and international levels. Includes policy paradigms, political ideology, and dynamics as well as federal-state relationships. Equivalent to DNP-821. Prerequisites: take DNP-9180, DNP-9181, HLSC-8400.

DNP-9380 Nursing Leadership Innovation and Entrepreneurship (3.00 cr.)

Explores critical topics in organizational and systems leadership that emphasize innovation in the administration of clinical nursing practice, quality models, continually improving health outcomes, and ensuring patient safety. Emphasizes leadership and communication strategies to move interdisciplinary groups toward common goals and objectives. Reviews the role of the nurse entrepreneur and explores current entrepreneurial enterprises. Equivalent to DNP-830. Prerequisites: take DNP-9180, DNP-9181.

DNP-9480 Advanced Practice Role: Care of Vulnerable Populations (3.00 cr.)

Explores theories, models, and research in healthcare disparities. Provides the advanced practice nursing student with the opportunity to synthesize theories and models for addressing the healthcare needs and healthcare disparities in vulnerable populations. Equivalent to DNP-840. Prerequisites: take DNP-9180, DNP-9181, HLSC-8350 and take STAT-8260 or HLAD-7105.

DNP-9510 Practitioner/Educator Role Residency (4.00 cr.)

Applies principles and strategies of teaching and learning in academic settings. Focus is on levels of program, course, and student outcomes for didactic and clinical learning that meet requirements of nursing education and accrediting bodies. Equivalent to DNP-910. Prerequisites: take DNP-8171, DNP-8172, DNP-8173, DNP-9180, DNP-9181, DNP-9280, DNP-9281, HLSC-7500, HLSC-8300 and take HLAD-7105 or STAT-8260.

DNP-9520 Community Role Residency (4.00 cr.)

Provides experience in the synthesis, critique, and application of evidence based practices. Students apply theories and strategies of public health/community policy, population health risk management, and homeland security in performing an evidence based clinical study on a public/community health clinical topic of interest. Equivalent to DNP-920. Prerequisites: take DNP-8171, DNP-8172, DNP-8173, DNP-9180, DNP-9181, DNP-9280, DNP-9281, HLSC-7500, HLSC-8300 and take HLAD-7105 or STAT-8260.

DNP-9530 Nursing Leadership Role Residency (4.00 cr.)

Provides experience in assimilating, synthesizing, critiquing, and applying the concepts and theories learned in the Advanced Reflective Core to the direct care of vulnerable populations. Students will be expected to reflect critically about their practice and demonstrate the clinical leadership, practice competency and critical thinking skills required of an advanced level practitioner. Equivalent to DNP-930. Prerequisites: take DNP-8171, DNP-8172, DNP-8173, DNP-9180, DNP-9181, DNP-9280, DNP-9281, HLSC-7500, HLSC-8300 and take HLAD-7105 or STAT-8260.

DNP-9540 Advanced Practice Role Residency (4.00 cr.)

Provides experience in assimilating, synthesizing, critiquing, and applying the concepts and theories learned in the Advanced Reflective Core to the direct care of vulnerable populations. Students will be expected to reflect critically about their practice and demonstrate the clinical leadership, practice competency and critical thinking skills required of an advanced level practitioner. Equivalent to DNP-940. Prerequisites: take DNP-8171, DNP-8172, DNP-8173, DNP-9180, DNP-9181, DNP-9280, DNP-9281, HLSC-7500, HLSC-8300 and take HLAD-7105 or STAT-8260.

DNP-9600 Doctorate of Nursing Practice Capstone Proposal Development (1.00 cr.)

Provides the opportunity for the design of a capstone project proposal to demonstrate understanding of core content and incorporate the skill sets used in the core and specialty curriculum to produce a measurable, tangible, and deliverable academic product that is reviewed and evaluated by an academic committee. Equivalent to DNP-960. Prerequisites: take DNP-9510, DNP-9520, DNP-9530, DNP-9540.

DNP-9961 Doctorate of Nursing Practice Capstone Project (4.00 cr.)

Provides the nursing student with the opportunity to synthesize previous experiences in the DNP program by implementing the capstone proposal development project. Capstone projects will yield a scholarly product, which may include a manuscript publishable in a peer-reviewed journal, a grant proposal, or other similar products. Equivalent to DNP-961. Prerequisite: take DNP-960.

DNP-9999 Directed Scholarship: Doctorate of Nursing Practice (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing the requirements for their degree and must have received a grade of "CO" in a designated capstone course. Note: this course is variable (2-3) in credit hours, repeatable (not replaceable) and is P/N/C option. Equivalent to DNP-999. Prerequisite: take DNP-9961.

Occupational Therapy

OCCT-4000 Topics in Occupational Therapy (1.00-3.00 cr.)

Provides for review and analysis of specific topics, issues, interventions, and service approaches. Provides opportunities to interact with noted scholars and experts in occupational therapy and other health, human service, and education fields of professional practice; and to apply related knowledge and skills. Equivalent to OCCT-410.

OCCT-4400 Computer Application: Medical Terminology for the Health Professional (1.00 cr.)

This is an independent, self-paced course that is open to all students interested in gaining knowledge of medical terminology. A programmed text and computer-based instruction are utilized. This course is a prerequisite for admission to the Master of Occupational Therapy program. Note: This is an online course only. Equivalent to OCCT-400.

OCCT-4500 Orientation to Occupational Therapy (2.00 cr.)

Designed to introduce the student to the field and profession of occupational therapy, with specific emphasis on the history and philosophy of the profession, the various areas of practice and the impact of current healthcare trends. Personal characteristics and qualities, team values and concepts, and professional standards, ethics, and terminology will be discussed. Note: This is an online course only. Equivalent to OCCT-440.

OCCT-5500 Research in Conductive Education (2.00 cr.)

Provides the knowledge and skills to critically read published scientific and clinical research. Focuses on the strengths and limitations of the research, discussion of alternative designs and presentation of rationale for the designs, evaluation of the quality of information and application of the research to clinical practice. Equivalent to OCCT-550. Prerequisite: take OCCT-5530.

OCCT-5510 Principles of Conductive Education (3.00 cr.)

Describes the facilitations of rhythmic intention, the role of the conductor or class leader, the task series, specific equipment and the structured program needed for conductive education. Equivalent to OCCT-510.

OCCT-5520 Disease Processes Relevant to Conductive Education (2.00 cr.)

Investigates the newest research and interventions related to upper motor neuron lesions. Focuses on how Conductive Education interventions can be used for individuals with different, but appropriate, neurological pathologies. Equivalent to OCCT-520. Prerequisite: take OCCT-5510.

OCCT-5530 Advances in Motor Control and Motor Learning (3.00 cr.)

Provides advanced information regarding motor control and motor learning theories. Emphasizes understanding central nervous system control of movement, and resulting functional outcomes when damage occurs. Associated systems including the visual and vestibular as well as co-occurring deficits such as dyspraxia and agnosia are covered in relation to clients in Conductive Education programs. Equivalent to OCCT-530. Prerequisites: take OCCT-5510, OCCT-5520.

OCCT-5560 Practicum in Conductive Education (3.00 cr.)

Provides a supervised clinical experience in transdisciplinary Conductive Education. Students will be supervised by qualified Conductive Education teachers, licensed physical therapists, and licensed occupational therapists at The Center for Independence Through Conductive Education for 45 hours. Equivalent to OCCT-560. Prerequisites: take OCCT-5510, OCCT-5520, OCCT-5530.

OCCT-5570 Learning Processes in Conductive Education (3.00 cr.)

Learning vehicles that feature within Conductive Education include experiential learning, the use of group process, the use of rhythm and song, shaping, backward chaining, creating the "just right challenge," and education based strategies. Equivalent to OCCT-570. Prerequisite: take OCCT-5530.

OCCT-5580 Developing a Conductive Education Business Plan (2.00 cr.)

Introduces the concepts of starting and maintaining a not for profit Conductive Education center. Students will learn the essentials of management and operation of a not for profit CE center and have the opportunity to develop a working business plan geared specifically toward the management of a Conductive Education program. Equivalent to OCCT-580. Prerequisites: take OCCT-5510, OCCT-5570.

OCCT-6000 Special Topics in Occupational Therapy (1.00-5.00 cr.)

This course is designed to explore specific topics in the profession of occupational therapy and related fields. The participant will be offered intensive training and educational experiences pertaining to the chosen topic. Equivalent to OCCT-710.

OCCT-6100 Writing in Health and Human Services (3.00 cr.)

This course is designed to explore academic writing in the profession of occupational therapy and related fields. The participant will immerse in critical thinking, focus, organization, development and style consistent with writing for dissemination, research and publication. Equivalent to OCCT-610.

OCCT-6601 Gross Anatomy I (3.00 cr.)

Intensive, comprehensive study of human anatomy. Presents an overview of organ systems and considers the regional anatomy of the body in detail. Emphasizes the trunk, upper extremity, and reproduction systems; stresses the interrelationship of structure with function.

OCCT-6602 Gross Anatomy I Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in OCCT-6601. Corequisite course: OCCT-6601.

OCCT-6611 Gross Anatomy II (3.00 cr.)

Continues the intensive, comprehensive study of human anatomy. Emphasizes the regional anatomy of the pelvis, hip, lower extremity, head, and neck. Prerequisite: take OCCT-6601.

OCCT-6612 Gross Anatomy II Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in OCCT-6611. Prerequisite: take OCCT-6602. Corequisite course: OCCT-66a1.

OCCT-6626 Neuroscience (4.00 cr.)

Comprehensive study of the neurosciences, focusing on the neuroanatomy and neurophysiology of the sensory and motor nervous systems. Nervous systems development, the structure and function of its cells, and the organization and function of the brain and spinal cord are emphasized. Laboratory studies will supplement the lecture material. Prerequisites: take OCCT-6611, OCCT-6612.

OCCT-6710 Ethics, Policy, and Advocacy in Occupational Therapy (3.00 cr.)

Designed to offer an overview of the occupational therapy profession within the United States with an emphasis on health and human service policy, leadership and advocacy issues, and ethical/legal implications confronting the contemporary occupational therapy practitioner. The Occupational Therapy Practice Framework: Domain and Process, will be defined and applied throughout the course as it pertains to individuals, groups, and populations. Equivalent to OCCT-701.

OCCT-6720 Occupational Therapy Process (3.00 cr.)

This course will define occupation and occupational performances and demonstrate to the student how to set parameters necessary for the assessment and determination of client needs. Particular emphasis will be placed on the concepts of client-centered care and strategies for therapeutic process and professional socialization. Occupational Therapy Practice Framework: Domain and Process will be defined and applied throughout the course as it pertains to individuals, groups, and populations. Equivalent to OCCT-750.

OCCT-6730 Theories of Occupation (3.00 cr.)

Examines the meaning and history of occupation. Presents a critical overview of concepts, models, and paradigms of the past, present and future effects upon occupational therapy practice. Explores the components of theory and the relationship to clinical thinking in the practice of occupational therapy. Equivalent to OCCT-720.

OCCT-6740 Team Theory and Practice (3.00 cr.)

Provides the student with the concept of a "team." Topics will cover teaming with other occupational therapists and certified occupational therapy assistants, interdisciplinary teaming in medical, school, residential, and vocational settings, the third party payer as part of the team, as well as person/client-centered teaming. The nature, concerns, roles, and process of teams will be presented. Interaction skills and group dynamics will be discussed. Equivalent to OCCT-730.

OCCT-6800 Health and Human Services Arena (3.00 cr.)

Explores health care reform both nationally and internationally and addresses issues of new and emerging developments in the profession of occupational therapy globally, nationally and within local communities. Students will identify and reflect upon their personal fit within the practice of occupational therapy both now and in the future. Equivalent to OCCT-680.

OCCT-7000 Seminar in Occupational Therapy (1.00-3.00 cr.)

Explores specific topics, issues, assessments/intervention approaches, and new developments in the profession of occupational therapy and related fields. Exposes the student to current and developing models of practice, scientific inquiry, assessments, and interventions in current and innovative practice areas of occupational therapy. Emphasizes the performance skills as they relate to the Occupational Therapy Framework. Equivalent to OCCT-725. Prerequisites: take OCCT-6730, OCCT-7706.

OCCT-7210 Occupational Therapy Level I Fieldwork A (1.00 cr.)

Provides an introductory period of supervised Level I fieldwork during which the student observes and participates in the application of the Occupational Therapy Framework: Domain and Process in a behavioral health setting. Equivalent to OCCT-742. Corequisite courses: OCCT-7740, OCCT-7742.

OCCT-7220 Occupational Therapy Level I Fieldwork B (1.00 cr.)

Provides an introductory period of supervised fieldwork experience during which the student observes and participates in the application of the Occupational Therapy Framework: Domain and Process in a setting that serves infants/children/adolescents. Equivalent to OCCT-802. Prerequisite: take OCCT-7210. Corequisite courses: OCCT-7810, OCCT-7811.

OCCT-7230 Occupational Therapy Level II Fieldwork C (1.00 cr.)

Provides an introductory period of supervised fieldwork experience during which the student observes and participates in the application of the Occupational Therapy Framework: Domain and Process in a setting that serves adults. Equivalent to OCCT-812. Prerequisite: take OCCT-7220. Corequisite courses: OCCT-7820, OCCT-7821.

OCCT-7705 Movement Analysis I Laboratory (1.00 cr.)

This course is designed to complement Gross Anatomy and Movement Analysis I by providing hands-on experience with the kinesiology and biomechanical principles covered in PHYT-6705. Will include surface anatomy and developing palpation skills. Equivalent to OCCT-706. Corequisite course: PHYT-6705. Prerequisite: take OCCT-6611.

OCCT-7706 Movement Analysis II Laboratory (1.00 cr.)

This course is a continuation of Movement Analysis I Laboratory and similarly is designed to complement Gross Anatomy II by applying the knowledge of structures to their participation in human movement. Emphasis is placed on movement performed with the pelvis and lower extremities and their application to specific joint, region, and/or whole body movements. This course concludes with an in-depth analysis of human posture and gait patterns. Course provides the student with the hands-on experience to apply the kinesiological and biomechanical principles covered in PHYT-6715. Equivalent to OCCT-716. Prerequisite: take OCCT-7705. Corequisite course: PHYT-6715.

OCCT-7740 Psychosocial Knowledge (3.00-4.00 cr.)

This course reviews psychosocial disorders with specific emphasis on occupational therapy domain and process in mental health. It examines how various psychological, social, and behavioral components of psychosocial disorders affect occupational performance. It includes psychosocial aspects of the family, physical illness, and cultural perspectives of mental health. Occupational Therapy Practice Framework: Domain and Process will be defined and applied in the context of mental health throughout the course. Equivalent to OCCT-740. Prerequisites: take OCCT-6720, OCCT-6730. Corequisite courses: OCCT-7742, OCCT-7210.

OCCT-7742 Psychosocial Knowledge Laboratory (1.00 cr.)

This course is designed to Complement the Psychosocial Knowledge by providing hands on experience with the occupational therapy domain and process in mental health. Will include developing essential skills required of the practitioner for successful application of the occupational therapy process. Equivalent to OCCT-741. Corequisite courses: OCCT-7210, OCCT-7740.

OCCT-7750 Human Development and Performance I (3.00 cr.)

This course will focus on the study of normal human development from prenatal through adolescence. The physical and motor aspects of development will be stressed as well as psychological, sensory, perceptual, cognitive, and social interaction components of development. The hierarchy of developmental sequences from infancy to adolescence will be presented in the context of environment, performance and temporal integration. The students will explore the theories of human development and correlate various theoretical premises within the occupational performance areas (play, leisure and work). The course is structured to facilitate class discussion and application. Equivalent to OCCT-760. Prerequisites: take OCCT-6720, OCCT-6730, OCCT-6626.

OCCT-7760 Human Development and Performance II (3.00 cr.)

This course will focus on the study of normal human development from early adulthood through senescence and death. The physical and motor aspects of development will be stressed as well as the psychological, sensory, perceptual, cognitive, and social interaction components of development. The sequences from early adulthood through senescence and death will be presented in the context of environment, performance and temporal integration. The students will explore the theories of human development and correlate various theoretical premises within the occupational performance areas (play, leisure and work). The course is structured to facilitate class discussion and application. Equivalent to OCCT-770. Prerequisite: take OCCT-7750.

OCCT-7780 Models of Health (3.00 cr.)

Reviews definitions of health. Contrasts the concepts of disability, impairment, illness, disease, and dysfunction with the models of health, wellness, prevention, and holism. The Occupational Therapy Practice Framework: Domain and Process will be defined and applied throughout the course as it pertains to individuals, groups, and population. Equivalent to OCCT-830. Prerequisite: take OCCT-7760.

OCCT-7790 Research Methods for Occupational Therapy (3.00 cr.)

Provides the student with the fundamental research background and tools to design clinical research in occupational therapy. Students will learn how to interpret research, conduct literature searches, and determine methods of research design and data collection. An understanding of research methods and statistical designs used in clinical research will assist the learner in the development of logical thinking, critical analysis, problem-solving, and creativity. Equivalent to OCCT-780. Prerequisites: take OCCT-6720, OCCT-6730.

OCCT-7810 Occupational Therapy Assessment and Intervention I (3.00 cr.)

This course covers assessment/ intervention for infants and children through adolescence. Identification, etiology, progression and prognosis of congenital, developmental, medical, and psychosocial influences upon occupational performance are examined. The course covers the assessment process, including needs identification, the use of specific evaluation procedures, and documentation. Specific emphasis is placed on the role of the occupational therapist in various service delivery settings. OT Practice Framework: Domain and Process will be defined and applied in the context of pediatrics throughout the course. Equivalent to OCCT-800. Prerequisite: take OCCT-7750. Corequisite courses: OCCT-7220, OCCT-7811.

OCCT-7811 Occupational Therapy Assessment and Intervention Laboratory I (1.00 cr.)

This course is designed to complement Occupational Therapy Assessment and Intervention I, through hands-on experience and the application of principles covered in OCCT-800. Equivalent to OCCT-801. Prerequisite: take OCCT-7750. Corequisite courses: OCCT-7220, OCCT-7810.

OCCT-7820 Occupational Therapy Assessment and Intervention II (3.00 cr.)

This course covers assessment/ intervention for young adults through senescence. Topics include identification, etiology, progression and prognosis of congenital, developmental, medical, and psychosocial influences upon occupational performance. The assessment process will include needs identification, the use of specific evaluation procedures, and documentation with a focus on bio-psychological and physical disability approaches. Specific emphasis is placed on the role of the occupational therapist in various service delivery settings. OT Practice Framework: Domain and Process will be defined and applied in the context of adulthood throughout the course. Equivalent to OCCT-810. Prerequisite: take OCCT-7760. Corequisite courses: OCCT-7230, OCCT-7821.

OCCT-7821 Occupational Therapy Assessment and Intervention Laboratory II (1.00 cr.)

Compliments Occupational Therapy Assessment and Intervention II, through hands-on experience and the application of principles covered in OCCT810. Equivalent to OCCT-811. Prerequisite: take OCCT-7760. Corequisite courses: OCCT-7230, OCCT-7820.

OCCT-7830 Assistive Technology: Methods and Tools (3.00 cr.)

Focuses on light to high technology intervention for independence in activities of daily living, communication, mobility, school/work, home modifications, and control of the environment. Emphasizes the criteria to determine goals and the necessity for assistive technology, as well as the occupational therapist's role in assessment and intervention. Explores catalog surveys, comparison of available equipment, basic fabrication, assembly, and repair. Equivalent to OCCT-820. Prerequisites: take OCCT-6730, OCCT-7750.

OCCT-7835 Methods and Tools for Promoting Performance (2.00 cr.)

Focuses on methods and tools, which promote performance using occupational therapy intervention, including orthotics, prosthetics, casting, ergonomics, return to work activities, and physical and thermal agents. Emphasizes the criteria needed to assess an individual and determine when appropriate intervention is indicated. Equivalent to OCCT-860. Prerequisite: take OCCT-7830.

OCCT-7840 Managing Occupational Therapy Services (3.00 cr.)

Introduces students to the language and practice of management, regulations, systems, and organization in occupational therapy practice. Stresses the relationship between health and human service policies and personal leadership in traditional and emerging areas of occupational therapy practice. The Occupational Therapy Practice Framework: Domain and Process, will be defined and applied throughout the course as it pertains to individuals, groups, and populations. Equivalent to OCCT-840. Prerequisite: take OCCT-7220.

OCCT-7850 Exploring Interdisciplinary Team Process and Leadership (3.00 cr.)

This course will bring together graduate students from many disciplines to learn effective communication and processing skills that will allow them to develop the understanding necessary for effective collaboration. This course will use communication and team building skills to demonstrate the value of interdisciplinary approaches. Such an interdisciplinary approach will show students effective techniques for valuing and educating client/customers, identifying and overcoming barriers to effective customer/client service, and leading to outcomes desired by the client/customer. Equivalent to OCCT-864.

OCCT-8310 Advanced Theories in Occupational Therapy (3.00 cr.)

Examines Occupational Therapy theories, concepts, and processes through critical reflection, critical thinking, and research. Considers how these theories can be realized in academic work and in advanced specialty occupational therapy practice. Emphasizes how occupational therapy theories bring conceptual unity to critically reflective inquiry across the program. Equivalent to OCCT-790.

OCCT-8320 Occupation Centered Practice and Process (3.00 cr.)

Using critical reflection and critical thinking examines occupation as the central concept and process in current, emerging, and future practice. Emphasizes critical evaluation of how occupation is evaluated and addressed in the various contexts of health care, education, community, political, and social systems. Equivalent to OCCT-792.

OCCT-8330 Evidence-Based Practice and Critical Thinking (3.00 cr.)

Advanced knowledge and skills of use of research methods and statistical designs to support practice. Through critical examination of current research, examines occupation as the central concept and process in the occupational therapy profession and in a current and/or emerging and/or future practice area. Interprets and designs clinical research in occupational therapy to advance the interplay of theory and practice. Equivalent to OCCT-794.

OCCT-8340 Instructional Methods in Occupational Therapy (3.00 cr.)

Examines learning theories and their application, recognizing the role of the advanced practitioner in educating the public and addressing health literacy. Identifies and analyzes the advanced practitioner role as educator within the political, economic, and socio-cultural forces that enhance and inhibit our practices and programmatic goals. Equivalent to OCCT-798.

OCCT-8350 Leadership and Entrepreneurship in Occupational Therapy (3.00 cr.)

Emphasizes personal and professional responsibilities of leadership in health and human services. The application of communication and processing skills necessary for development and communication of new and/or advanced practice initiatives. Equivalent to OCCT-796.

OCCT-8360 Advocacy: Legal and Ethical Policy and Leadership (3.00 cr.)

Examines the ethical dilemmas of leadership, the moral implication of policy making and the role of the advanced practitioner in influencing public and private policy affecting health and human services. Critiques the impact of race, gender, and class on theory, practice, and program development. Strategies for taking action in public administration and policy will be explored, as will theories related to leadership in public, private, and non-profit organizations. Equivalent to OCCT-896.

OCCT-8370 Funding Occupational Therapy Research (3.00 cr.)

Emphasizes funding and dissemination of occupational therapy research. Identifies and applies processes for obtaining funding and the responsibilities inherent in funded research and its dissemination are. Equivalent to OCCT-797.

OCCT-8410 Qualitative Research in Occupational Therapy (3.00 cr.)

Emphasizes the major approaches to conducting qualitative research and the application of qualitative design in evidence based practice. Includes method, design, technique, analyses, and application to theory building. Equivalent to OCCT-892. Prerequisite: take OCCT-8420.

OCCT-8420 Quantitative Research in Occupational Therapy (3.00 cr.)

Emphasizes quantitative research designs and their application in evidence based practice. Includes method, design, technique, analyses, and application to theory building. Equivalent to OCCT-894. Prerequisite: take OCCT-8330.

OCCT-8430 Practice and Measurement Model I (3.00 cr.)

Emphasizes development of a theoretical conceptual practice and measurement model in occupational therapy. It culminates in the development of an individual practice model that includes analysis, classification and synthesis of person, environment and occupation related factors on the occupational performance of an identified population. It emphasizes understanding the dynamic interface between theory, evidence and clinical practice. Equivalent to OCCT-805. Prerequisites: take OCCT-8310, OCCT-8330.

OCCT-8440 Practice and Measurement Model II (2.00 cr.)

This course is a continuation of Practice & Measurement Model I. The course emphasizes development of a theoretical conceptual practice and measurement model in occupational therapy. It culminates in the development of an individual practice model that includes analysis, classification and synthesis of person, environment and occupation related factors on the occupational performance of an identified population. It emphasizes understanding the dynamic interface between theory, evidence and clinical practice. Equivalent to OCCT-806. Prerequisite: take OCCT-8430.

OCCT-8450 Independent Research (1.00-3.00 cr.)

A project or program of studies designed and lead by a qualified individual or individuals who will guide the student in gathering, analyzing, interpreting, and understanding evidence regarding their area of study/research. This course may be repeated per student's plan of study.

OCCT-8510 Pro-Seminar I (1.00 cr.)

Provide a forum for refinement of the capstone research concept. Students develop the problem statement and state the purpose of the research. They will build a review of the literature that will guide their capstone research. Students, in cooperation with the research advisor, will determine the specialty courses necessary to support their chosen area of capstone research or project development. Equivalent to OCCT-899.

OCCT-8520 Pro-Seminar II (1.00-3.00 cr.)

Provides a forum for review, critique, evaluation, and discussion of the research and practice of occupational therapy. Features student integration of required focused coursework, specialty concentration, research, and development of Capstone project proposal. Equivalent to OCCT-852. Prerequisite: take OCCT-8510.

OCCT-8530 Pro-Seminar III (1.00-3.00 cr.)

Provide a forum for the refinement of the Capstone research and preparation for the presentation of the defense of the Capstone research proposal. Note: May be repeated one time for a total of 6 credits. Equivalent to OCCT-899. Prerequisite: take OCCT-8520.

OCCT-8900 Occupational Therapy Independent Research Study (1.00-8.00 cr.)

Individual reading, research, and/or project in occupational therapy under the supervision of the faculty. May be repeated for up to eight hours. Equivalent to OCCT-870. Prerequisite: take OCCT-7790.

OCCT-8910 Occupational Therapy Level II Fieldwork A (3.00-10.00 cr.)

Provides an in-depth period of supervised fieldwork experience during which the student applies theoretical concepts in the practice of occupational therapy. A minimum equivalence of 12 weeks of full time fieldwork experience is mandated by the Accreditation Council of Occupational Therapy Education (ACOTE). Consists of a 12- to 15-week, supervised practical experience, full-time or equivalent clinical site placement. Equivalent to OCCT-865. Prerequisites: take OCCT-7230, OCCT-7820, OCCT-7821.

OCCT-8920 Occupational Therapy Level II Fieldwork B (10.00 cr.)

Provides an in-depth period of supervised fieldwork experience during which the student applies theoretical concepts in the practice of occupational therapy. A minimum equivalence of 12 weeks of full time fieldwork experience is mandated by the Accreditation Council of Occupational Therapy Education (ACOTE). Consists of a 12-to-15-week, supervised practical experience, full time or equivalent clinical site placement. Equivalent to OCCT-868. Prerequisite: take OCCT-8910.

OCCT-8930 Occupational Therapy Specialty Fieldwork (5.00 cr.)

Provides an in-depth period of supervised fieldwork experience during which the student applies theoretical concepts in the practice of occupational therapy focused on a particular area of specialty. This may include assistive technology, pediatrics, burns, hands, work intervention, management, or another area of choice. Consists of a six week, full-time or equivalent clinical site placement. Equivalent to OCCT-869.

OCCT-8940 Advanced Assistive Technology (4.00 cr.)

This course will take the form of a "tech camp" covering eight days with opportunities to practice installing, using, and customizing various assistive technologies, including seating and positioning, computer access, augmentative communication, environmental control, and universal design/access. Equivalent to OCCT-862. Prerequisite: take OCCT-7830.

OCCT-9900 Clinical Fellowship (1.00-3.00 cr.)

Integrate theory, research, and best practice methods into an evidence based practice project in the chosen specialty concentration. The clinical fellowship is an applied research experience designed to meet the objective of advancing occupational therapy practice in the region/community. May be repeated up to 6 credits. Equivalent to OCCT-992.

OCCT-9910 Directed Scholarship: Doctorate in Occupational Therapy (1.00-2.00 cr.)

Integrate theory, research and best practice methods into an evidence based practice project in the chosen specialty concentration. This course is a continuation of clinical fellowship/capstone, an applied research experience designed to meet the objective of advancing occupational therapy practice in the region/community. This is a DrOT Continued Registration (CO) course that requires student petition and instructor and chairperson approval. Note: May be repeated. Equivalent to OCCT-999.

OCCT-9920 Doctorate in Occupational Therapy Capstone Project (1.00-3.00 cr.)

Applied scholarship involving planning and implementation of one or more research projects based on theory and evidence. Examples of DrOT capstone projects could include manuscripts submitted for publication, a grant proposal, systematic review, research utilization project, practice topic dissemination, substantive involvement in a larger endeavor or other practice project. Note: May be repeated up to 6 credits. Equivalent to OCCT-994.

Online Teaching Learning

ONTL-5101 Introduction to Online Learning (2.00 cr.)

Familiarizes students with the technology, communication tools, learning processes, and success strategies that are involved in taking an online course. Equivalent to ONTL-502.

ONTL-6101 Introduction to Online Teaching (3.00 cr.)

Introduces learners to the technology, communications tools, learning processes, and pedagogies that are involved in developing and teaching online courses. Equivalent to ONTL-650.

ONTL-6201 Facilitating Online Learning (3.00 cr.)

Presents facilitation strategies for use in teaching online courses. Reviews methods for establishing interactive learning communities, engaging students in active learning, providing timely feedback, encouraging time on task, and responding to diverse talents and ways of learning. Equivalent to ONTL-651. Prerequisite: take ONTL-6101.

ONTL-7101 Designing Online Courses (3.00 cr.)

Addresses curriculum design for online learning using best practice guidelines. Explores student-content, student-faculty, and student-student interactions, incorporation of feedback and assessment strategies, and the design of online elements to meet accessibility standards. Emphasizes design of sample instructional units. Equivalent to ONTL-652. Prerequisite: take ONTL-6201.

ONTL-7201 Producing Digital Content (3.00 cr.)

Introduces software products available to create digital content for online courses, including audio, presentation, graphics, and video content. Best practices will be explored and applied to producing content elements for online courses. Accessibility issues and strategies to address multiple learning styles will be explored. Equivalent to ONTL-653. Prerequisite: take ONTL-7101.

Philosophy

PHIL-3101 Studies in Philosophy (3.00 cr.)

Explores basic judgments on the nature of man, society, government, and the universe with a view toward clarifying the issues that lie at the core of controversy. Equivalent to PHIL-301.

PHIL-3111 Studies in Religion (3.00 cr.)

Reviews various approaches to religion: philosophical, theological, sociological, and psychological. Discusses the differing forms of religion, theories on their origins, and comparative views of the major world religions. Equivalent to PHIL-311.

PHIL-3333 Ethics in Healthcare (3.00 cr.)

Presents some of the major ethical problems confronting society, the healthcare system, and the healthcare administrator. Each student will be encouraged to synthesize a personal professional philosophy to deal with the ethical dilemmas inherent in health services delivery. Equivalent to PHIL-330. Prerequisite: take HLAD-3101.

PHIL-3881 Theory of Knowledge (3.00 cr.)

Designed specifically to assist students in achieving knowledge related to the philosophical and scientific view of knowledge. Organized into two distinct parts: Part I, the nature of knowledge, considers the various philosophical interpretations of knowledge and the process of knowing; Part II, evolution, is devoted to a study of the history of evolutionary thought as an example of the development of scientific knowledge. Equivalent to PHIL-371.

PHIL-3886 Logic (3.00 cr.)

A study of the basic structure and principles of valid deduction and warranted induction and application of such knowledge in the analysis and assessment of public issues found in the mass media. Equivalent to PHIL-386.

PHIL-4254 Chinese Thought (3.00 cr.)

A study of the major Chinese thinkers and their writings. Equivalent to PHIL-524.

PHIL-4330 Aesthetics (3.00 cr.)

Analyzes the concepts of meaning, communication, and truth in art. Deals with the identification and definition of a work of art, the criteria or judgment of excellence, the nature of the aesthetic experience, and the place of art in human experience. Equivalent to PHIL-533.

PHIL-4402 Advanced Ethics: Theory and Practice (3.00 cr.)

An in-depth critical examination of ethical theories of major philosophical schools in a multicultural approach. Evaluates at an advanced level the practical applications of ethical thinking to controversial moral dilemmas from a global perspective. Equivalent to PHIL-542. Prerequisite: take PHIL-3101 or PHIL-3111.

PHIL-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in philosophy under the supervision of the faculty. Equivalent to PHIL-470.

Physical Therapy

PHYT-2320 Orientation to Physical Therapy (2.00 cr.)

Introduces the student to the field and profession of physical therapy. Presents a history of the profession, the professional curriculum, and the different specialty areas. Discusses personal and professional qualities, professional ethics, and the psychological aspects of treatment. Assists in laying a framework upon which an interest in the profession of physical therapy can be weighed. Media-based course. Equivalent to PHYT-320.

PHYT-5510 Principles of Conductive Education (3.00 cr.)

Describes the facilitations of rhythmic intention, the role of the conductor or class leader, the task series, specific equipment and the structured program needed for Conductive Education. Equivalent to PHYT-510.

PHYT-5520 Disease Processes Relevant to Conductive Education (2.00 cr.)

Investigates the newest research and interventions related to upper motor neuron lesions. Focuses on how Conductive Education interventions can be used for individuals with different, but appropriate, neurological pathologies. Equivalent to PHYT-520.

PHYT-5530 Advances in Motor Control and Motor Learning (3.00 cr.)

Provides advanced information regarding motor control and motor learning theories. Emphasizes understanding central nervous system control of movement, and resulting functional outcomes when damage occurs. Associated systems including the visual and vestibular as well as co-occurring deficits such as dyspraxia and agnosia are covered in relation to clients in Conductive Education programs. Equivalent to PHYT-530. Prerequisites: take PHYT-5510, PHYT-5520.

PHYT-5550 Research in Conductive Education (2.00 cr.)

Provides the knowledge and skills to critically read published scientific and clinical research. Focuses on the strengths and limitations of the research, discussion of alternative designs and presentation of rationale for the designs, evaluation of the quality of information, and application of the research to clinical practice. Equivalent to PHYT-550. Prerequisite: take PHYT-5530.

PHYT-5560 Practicum in Conductive Education (3.00 cr.)

Provides a supervised clinical experience in transdisciplinary Conductive Education. Students will be supervised by qualified Conductive Education teachers, licensed Physical Therapists, and licensed Occupational Therapists at The Center for Independence Through Conductive Education for 45 hours. Equivalent to PHYT-560. Prerequisites: take PHYT-5510, PHYT-5520, PHYT-5530.

PHYT-5570 Learning Processes in Conductive Education (3.00 cr.)

Learning vehicles that feature within Conductive Education include experiential learning, the use of group process, the use of rhythm and song, shaping, backward chaining, creating the "just right challenge," and education based strategies. Equivalent to PHYT-570. Prerequisite: take PHYT-5530.

PHYT-5580 Developing a Conductive Education Business Plan (2.00 cr.)

Introduces the concepts of starting and maintaining a not for profit Conductive Education center. Students will learn the essentials of management and operation of a not for profit CE center and have the opportunity to develop a working business plan geared specifically toward the management of a Conductive Education program. Equivalent to PHYT-580. Prerequisites: take PHYT-5510, PHYT-5570.

PHYT-6500 Physical Therapy Workshop (1.00-3.00 cr.)

Provides skill or competency-based training sessions directly related to improving the delivery of physical therapy interventions or the supervision of physical therapy students. Equivalent to PHYT-500.

PHYT-6601 Gross Anatomy I (3.00 cr.)

Intensive, comprehensive study of human anatomy. Presents an overview of the organ systems and considers the regional anatomy of the body in detail. Emphasizes the trunk, upper extremity, and reproductive systems; stresses the interrelationship of structure with function. Equivalent to PHYT-601.

PHYT-6602 Gross Anatomy I Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in BIOL-7701 or PHYT-6601. Equivalent to PHYT-602. Corequisite course: PHYT-6601.

PHYT-6611 Gross Anatomy II (3.00 cr.)

Continues the intensive, comprehensive study of human anatomy. Emphasizes the regional anatomy of the pelvis, hip, lower extremity, head, and neck. Equivalent to PHYT-611. Prerequisites: take PHYT-6601, PHYT-6602.

PHYT-6612 Gross Anatomy II Laboratory (1.00 cr.)

Provides detailed dissection on human cadavers that parallels the topics covered in BIOL-7711 or PHYT-6611. Equivalent to PHYT-612. Corequisite course: PHYT-6611.

PHYT-6626 Neuroscience (4.00 cr.)

Comprehensive study of the neurosciences, focusing on the neuroanatomy and neurophysiology of the sensory and motor nervous systems. Nervous system development, the structure and function of its cells, and the organization and function of the brain and spinal cord are emphasized. Laboratory studies will supplement the lecture material. Equivalent to PHYT-626. Prerequisites: take BIOL-7701 and BIOL-7702 or take PHYT-6601 and PHYT-6602.

PHYT-6701 Patient Management I (2.00 cr.)

Covers basic patient care and screening skills in physical therapy with emphasis on clinical decision-making strategies. Includes communication skills, interviewing, basic documentation principles, professional behaviors, measurement issues, vital signs, responding to emergencies, and aseptic techniques. Equivalent to PHYT-701. Prerequisites: take PHYT-6611, PHYT-6612. Corequisite course: PHYT-6702.

PHYT-6702 Patient Management I Laboratory (1.00 cr.)

Provides an opportunity to observe, practice, and become proficient in the performance of professional behaviors and patient care skills utilized in PHYT-6701. May include clinical observation off campus. Equivalent to PHYT-702. Corequisite course: PHYT-6701.

PHYT-6705 Movement Analysis I (2.00 cr.)

Examines the static and dynamic relationships between the function and structure of the musculoskeletal system under normal and abnormal conditions. Emphasis is placed on movement performed with the torso and upper extremities and their application to specific joint, region and/or whole body movements. Equivalent to PHYT-705. Prerequisites: take PHYT-6611, PHYT-6612. Corequisite course: PHYT-6702.

PHYT-6706 Movement Analysis I Laboratory (1.00 cr.)

This course is designed to complement Gross Anatomy and Movement Analysis I by providing hands-on experience with the kinesiological and biomechanical principles covered in PHYT-6705. Will include surface anatomy and development of palpation skills. Equivalent to PHYT-706. Corequisite course: PHYT-6705.

PHYT-6710 Integrative Physical Therapy Seminar I (1.00 cr.)

Designed to integrate the content from all courses taken in the term and previous courses using current relevant literature and case studies. Focuses on developing skills for clinical decision-making. Equivalent to PHYT-710. Corequisite courses: BIOL-7706, BIOL-7707, PHYT-6626, PHYT-6701, PHYT-6702, PHYT-6705, PHYT-6706.

PHYT-6711 Patient Management II (2.00 cr.)

Examines basic patient care and screening skills in physical therapy with emphasis on clinical decision-making strategies. Focuses on screening and examination tools used in physical therapy; including the use of palpation, range motion, goniometric evaluation, manual muscle testing, positioning, draping, gait assessment, ambulatory aids, wheelchairs, activities of self-care, and lifting and transferring patients. Equivalent to PHYT-711. Prerequisites: take PHYT-6701, PHYT-6702. Corequisite course: PHYT-6712.

PHYT-6712 Patient Management II Laboratory (1.00 cr.)

Provides an opportunity to observe, practice, and become proficient in the performance of professional behaviors and patient care skills utilized in Patient Management II. May include clinical observations off campus. Equivalent to PHYT-712. Corequisite course: PHYT-6711.

PHYT-6715 Movement Analysis II (2.00 cr.)

Continuation of Movement Analysis I by applying the knowledge of structures to their participation in human movement. Emphasis on movement performed with the pelvis and lower extremities and their application to specific joint, region, and/or whole body movements. Concludes with an in-depth analysis of human posture and gait patterns. Equivalent to PHYT-715. Prerequisites: take PHYT-6705, PHYT-6706. Corequisite course: PHYT-6716.

PHYT-6716 Movement Analysis II Laboratory (1.00 cr.)

This course provides the student with the hands-on experience to apply the kinesiological and biomechanical principles covered in PHYT-6715. Equivalent to PHYT-716. Corequisite courses: PHYT-6715.

PHYT-6720 Integrative Physical Therapy Seminar II (1.00 cr.)

Integrates the content from all courses taken in the term and previous courses using current relevant literature and case studies. Focuses on developing skills for clinical decision-making. Equivalent to PHYT-720. Prerequisite: take PHYT-6710. Corequisite courses: BIOL-7716, PHYT-6711, PHYT-6712, PHYT-6715, PHYT-6716, PHYT-6724.

PHYT-6721 Patient Management III (2.00 cr.)

Covers the use of therapeutic exercise in physical therapy practice with a variety of patients. Applies principles of motor control, motivational theory, and strategies for effective instruction to exercise techniques for improving strength, endurance, balance, and flexibility. Equivalent to PHYT-721. Prerequisites: take PHYT-6711, PHYT-6712. Corequisite course: PHYT-6722.

PHYT-6722 Patient Management III Laboratory (1.00 cr.)

Provides an opportunity to observe, practice, and become proficient in the performance of therapeutic exercise and patient care skills. Equivalent to PHYT-722. Corequisite course: PHYT-6721.

PHYT-6724 Pharmacology for Physical Therapy (2.00 cr.)

Introduces the role of pharmacologic interventions as part of patient management. Describes pharmacodynamic, pharmacokinetics, and drug classifications. Emphasizes potential interactions of physical therapy interventions with drug therapies. Equivalent to PHYT-724. Prerequisites: take BIOL-7706, BIOL-7707.

PHYT-6742 Psychomotor Development Throughout the Lifespan (3.00 cr.)

Presents the psychomotor and psychosocial processes of human growth and development throughout the lifespan. Follows a chronological orientation that focuses on the integration of physical, emotional, cognitive, and social factors contributing to the development of the individual. Equivalent to PHYT-742. Prerequisites: take PHYT-6611, PHYT-6612, PHYT-6715, PHYT-6716.

PHYT-6743 Research in Physical Therapy Practice (3.00 cr.)

This course provides the student with the knowledge and skills to critically read published scientific and clinical research. Identification of the strengths and limitations of the research, discussion of alternative designs and presentation of rationale for the designs, evaluation of the quality of information and application of the research to clinical practice will be covered. Equivalent to PHYT-743.

PHYT-6745 Exercise Physiology (2.00 cr.)

Examines the physiological response to acute and chronic bouts of exercise in apparently healthy individuals, as well as individuals with disease and special needs. Uses a systems approach, which will serve as the foundation for designing an appropriate exercise program for any patient referred to the physical therapist. Equivalent to PHYT-745. Prerequisite: take BIOL-7716. Corequisite course: PHYT-6746.

PHYT-6746 Exercise Physiology Laboratory (1.00 cr.)

Allows for hands-on practice of exercise testing and prescription appropriate for physical therapists. Equivalent to PHYT-746. Corequisite course: PHYT-6745.

PHYT-6790 Introduction to Healthcare Research (3.00 cr.)

Presents basic statistics used in healthcare research. Considers the importance of critically reviewing research for clinical applications. Introduces concepts of evidence based medicine. Equivalent to PHYT-790.

PHYT-6800 Independent Study (3.00 cr.)

Requires approved study plan for in-depth study of a topic relevant to the development of an autonomous physical therapist practitioner. Equivalent to PHYT-800. Prerequisite: take PHYT-6820.

PHYT-6820 Clinical Decision Making I (3.00 cr.)

Introduces successful strategies for online learning while considering the importance of decision making processes in physical therapy practice. Covers issues for creating a doctoring profession in physical therapy. Equivalent to PHYT-820.

PHYT-6821 Clinical Decision Making II (3.00 cr.)

Applies clinical decision making strategies to patient management issues across the spectrum of physical therapy practice. Includes analysis of clinical practice patterns and the employment of evidence to clinical practice. Equivalent to PHYT-821. Prerequisite: take PHYT-6820.

PHYT-6824 Pharmacology for Licensed Physical Therapists (3.00 cr.)

Introduces the role of pharmacologic interventions as part of patient management. Describes pharmacodynamic, pharmacokinetic, and drug classifications. Emphasizes potential interactions of physical therapy interventions with drug therapies. Equivalent to PHYT-824. Prerequisite: take PHYT-6820.

PHYT-7717 Clinical Orthopedics I (2.00 cr.)

Provides the foundations of orthopedic physical therapy evaluation of musculoskeletal problems and screening for disease. Using a regional approach, students will learn the signs, symptoms, and special tests for common musculoskeletal problems followed by appropriate treatment interventions. Focuses on the areas of the cervical spine and upper extremities. Clinical case studies and critical thinking exercises will be integral parts of this course. Equivalent to PHYT-717. Prerequisites: take PHYT-6715, PHYT-6716. Corequisite course: PHYT-7718.

PHYT-7718 Clinical Orthopedics I Laboratory (1.00 cr.)

Allows an opportunity to practice and perfect the necessary evaluative palpation, special tests, and interventions appropriate to orthopedic physical therapy. Focuses on the musculoskeletal problems of the cervical spine and upper extremities. Equivalent to PHYT-718. Corequisite course: PHYT-7717.

PHYT-7727 Physical and Electrical Agents Laboratory (1.00 cr.)

Provides the hands-on application of physical therapy modalities, including, but not limited to heat, ultrasound, hydrotherapy, and cryotherapy. Includes the application of electrotherapy including biofeedback, electrical stimulation, and electrophysiologic testing of muscles and nerves. Equivalent to PHYT-727. Corequisite course: PHYT-7728.

PHYT-7728 Physical and Electrical Agents in Physical Therapy (2.00 cr.)

Provides the theory and clinical application of physical therapy modalities, including heat, ultrasound, hydrotherapy, and cryotherapy. Includes an overview of current electrotherapy techniques, including biofeedback, electrical stimulation, and electrophysiologic testing of muscles and nerves. Equivalent to PHYT-728. Prerequisites: take BIOL-7716, PHYT-6721, PHYT-6722. Corequisite course: PHYT-7727.

PHYT-7729 Clinical Practicum (3.00 cr.)

Emphasizes the application of basic physical therapy skills as covered in previous coursework; students will be supervised by licensed physical therapists at affiliating facilities off campus. Equivalent to PHYT-729. Prerequisites: take PHYT-6711, PHYT-6712, PHYT-6720.

PHYT-7730 Integrative Physical Therapy Seminar III (1.00 cr.)

Integrates the content from all courses taken in the term and previous courses using current relevant literature and case studies. Focuses on developing skills for clinical decision-making. Equivalent to PHYT-730. Prerequisite: take PHYT-6720. Corequisite courses: PHYT-7717, PHYT-7718, PHYT-7727, PHYT-7728, PHYT-7755, PHYT-7756, PHYT-7757.

PHYT-7737 Clinical Orthopedics II (3.00 cr.)

Provides the foundations of orthopedic physical therapy evaluation of musculoskeletal problems and screening for disease. Covers the signs, symptoms, and special tests for common musculoskeletal problems followed by the appropriate treatment interventions using a regional approach and evidence based practice. Focuses on the areas of thoracic spine, lumbar spine, pelvis, and lower extremities. Equivalent to PHYT-737. Prerequisites: take PHYT-7717, PHYT-7718. Corequisite course: PHYT-7738.

PHYT-7738 Clinical Orthopedics Laboratory II (1.00 cr.)

Allows an opportunity to practice and perfect the necessary evaluation palpation, special tests, and interventions appropriate to orthopedic physical therapy. Focuses on musculoskeletal problems of the thoracic spine, lumbar spine, pelvis, and lower extremities. Equivalent to PHYT-738. Corequisite course: PHYT-7737.

PHYT-7740 Integrative Physical Therapy Seminar IV (1.00 cr.)

Integrates the content from all courses taken in the term and previous courses using current relevant literature and case studies. Focuses on developing skills for clinical decision-making. Equivalent to PHYT-740. Prerequisite: take PHYT-7730. Corequisite courses: PHYT-7737, PHYT-7738, PHYT-7762, PHYT-7766, PHYT-7767, PHYT-7772.

PHYT-7755 Cardiopulmonary Physical Therapy (3.00 cr.)

Covers cardiovascular and pulmonary disorders across the lifespan. Emphasizes evidence-based practice for the physical therapy management of cardiac, vascular, or pulmonary patients from critical care through wellness programs. Equivalent to PHYT-755. Prerequisites: take PHYT-6745, PHYT-6746.

PHYT-7756 Neuroscience Therapeutics I (2.00 cr.)

Facilitates integration of materials and provides the necessary background information, rationale, and treatment techniques appropriate for treating clients with neurological impairments. Organized into sections representing various theories, philosophies, and treatment techniques. Equivalent to PHYT-756. Prerequisites: take PHYT-6626, PHYT-6721, PHYT-6722. Corequisite course: PHYT-7757.

PHYT-7757 Neuroscience Therapeutics Laboratory I (1.00 cr.)

Provides the opportunity for supervised instruction and practice in handling patients with neurological impairments. Equivalent to PHYT-757. Corequisite course: PHYT-7756.

PHYT-7760 Interaction and Education for Patient Care (3.00 cr.)

Provides an overview of the effects of illness and disability on patients, family, and society. Includes background information regarding values clarification, moral dilemmas, and communication. Discusses the psychology of death and dying; professional relationships; conflict resolution; stress management, educational theories, and learning styles. Equivalent to PHYT-760. Prerequisites: take PHYT-6721, PHYT-6722.

PHYT-7762 Integumentary Physical Therapy (3.00 cr.)

Examines causes for changes or diseases in the lymphatic and integumentary systems. Presents evidence-based examination and intervention techniques specific to these systems. Differentiates physical therapists' role for assisting patient who have these dysfunctions. Equivalent to PHYT-762. Prerequisites: take BIOL-7716, PHYT-6711, PHYT-6712, PHYT-6721, PHYT-6722.

PHYT-7766 Neuroscience Therapeutics II (3.00 cr.)

Second course in the sequence, which covers the background information, examination, rationale, and intervention techniques appropriate for evidence-based practice for clients with neurological impairments. Organized into sections representing various theories, philosophies, and treatment techniques. Equivalent to PHYT-766. Prerequisites: take PHYT-7756, PHYT-7757. Corequisite course: PHYT-7767.

PHYT-7767 Neuroscience Therapeutics Laboratory II (1.00 cr.)

Provides an opportunity for supervised instruction and practice in handling clients with neurological impairments. Equivalent to PHYT-767. Prerequisite: take PHYT-7766.

PHYT-7770 Ethical, Leadership, and Policy Dimensions of Physical Therapy (3.00 cr.)

Introduces the ethical, leadership, and policy dimensions of physical therapy. Analyzes ethical issues in contemporary physical therapist practice and roles. Develops abilities to lead and serve as an advocate within the community, the healthcare system, the physical therapy profession, and the legislative process. Equivalent to PHYT-770. Prerequisite: take PHYT-7760.

PHYT-7772 Orthotics and Prosthetics (2.00 cr.)

Covers the medical indications, biomechanical basis, and management of the patient with orthotic or prosthetic needs. Equivalent to PHYT-772. Prerequisites: take PHYT-6715, PHYT-6716.

PHYT-7780 Physical Therapy in the Healthcare Team (3.00 cr.)

Develops a broad perspective regarding organization and issues specific to the profession of physical therapy. Focuses on current topics and healthcare changes. Equivalent to PHYT-780. Prerequisite: take PHYT-7770.

PHYT-7782 Imaging for Physical Therapists (2.00 cr.)

Introduces the role of imaging as part of patient management. Covers common evaluation principles and specialized imaging for musculoskeletal injuries and neurological testing procedures. Equivalent to PHYT-782. Prerequisites: take BIOL-7716, PHYT-7737, PHYT-7738.

PHYT-7786 Physical Therapy Management of Medical/Surgical (2.00 cr.)

Emphasizes the role of the physical therapist in all three levels of intervention (primary, secondary, and tertiary prevention) as healthcare providers. Provides physical therapy management of patients with conditions and diseases that are often addressed in a multi-disciplinary approach. Equivalent to PHYT-786. Prerequisites: take BIOL-7716, PHYT-7737, PHYT-7738, PHYT-7766, PHYT-7767.

PHYT-7788 Comprehensive Patient Management (2.00 cr.)

Integrates information from all previous course work. Includes comparison of differing treatment methodologies, citing both advantages and disadvantages of each, and making a justified choice of treatment evaluation and progression. Equivalent to PHYT-788. Prerequisites: take PHYT-7729, PHYT-7737, PHYT-7738, PHYT-7755, PHYT-7762, PHYT-7766, PHYT-7767.

PHYT-7825 Research I: Evidence Based Physical Therapy Practice (3.00 cr.)

Focuses on principles of evidence based medicine. Includes skills for critically reading published scientific and clinical research. Covers strengths and limitations of the research, discussions of alternative designs and application of the research to clinical practice. Equivalent to PHYT-825. Prerequisites: take PHYT-6790, PHYT-6820.

PHYT-7830 Teaching and Learning in Physical Therapy (3.00 cr.)

Focuses on successful strategies for teaching patients and students in the clinical setting. Includes application of educational theories. Concludes with the APTA's Clinical Instructor Education and Credentialing program. Equivalent to PHYT-830. Prerequisite: take PHYT-6820.

PHYT-7840 Management and Administration in Physical Therapy (3.00 cr.)

Provides proven business methods for managing physical therapy practice. Includes considerations of third party-payers and personnel issues. Equivalent to PHYT-840. Prerequisite: take PHYT-6820.

PHYT-7842 Imaging for Licensed Physical Therapists (3.00 cr.)

Introduces the role of imaging as part of patient management. Covers common evaluation principles, specialized imaging for musculoskeletal injuries and neurological testing procedures. Equivalent to PHYT-842. Prerequisite: take PHYT-6820.

PHYT-7850 Advocacy and Leadership in Physical Therapy (3.00 cr.)

Uses ethics and values to promote autonomous practice and provide leadership in the healthcare system. Discusses responsibility and accountability in health policy and relevant topics to promote autonomy in physical therapy. Equivalent to PHYT-850. Prerequisites: take PHYT-6820, PHYT-7840.

PHYT-7852 Integumentary Physical Therapy (3.00 cr.)

Covers causes for changes or diseases in the lymphatic and integumentary systems. Presents evidence-based examination and intervention techniques specific to these systems. Differentiates physical therapists' roles for assisting patients who have these dysfunctions. Equivalent to PHYT-852. Prerequisite: take PHYT-6820.

PHYT-7860 Topics in Physical Therapy (3.00 cr.)

Issues of special interest to physical therapists will be presented by experts in the area. Equivalent to PHYT-860. Prerequisite: take PHYT-6820.

PHYT-8792 Wellness and Human Performance (3.00 cr.)

Integrates the role of the physical therapist in caring for healthy individuals and populations with chronic diseases. Focuses on serving individuals and groups that may not have access to physical therapists in traditional settings. Equivalent to PHYT-792. Prerequisite: take PHYT-8801.

PHYT-8801 Clinical Internship I (4.00 cr.)

A full-time clinical experience in patient management at an in-patient or out-patient setting. Students will be supervised by qualified, licensed physical therapists at affiliating facilities off-campus. Equivalent to PHYT-801. Prerequisites: take PHYT-7780, PHYT-7788. Corequisite course: PHYT-8802.

PHYT-8802 Integrative Physical Therapy Seminar V (1.00 cr.)

Designed to integrate knowledge and data from the first clinical internship in to a current case study using current relevant literature. Equivalent to PHYT-802. Prerequisites: take PHYT-7780, PHYT-7788. Corequisite course: PHYT-8801.

PHYT-8803 Clinical Internship II (4.00 cr.)

A full-time clinical experience in patient management at an in-patient or out-patient setting. Students will be supervised by qualified, licensed physical therapists at affiliating facilities off-campus. Equivalent to PHYT-803. Prerequisites: take PHYT-8801, PHYT-8802. Corequisite course: PHYT-8804.

PHYT-8804 Integrative Physical Therapy Seminar VI (1.00 cr.)

Integrates knowledge and data from the second clinical internship in to a current case study using current relevant literature. Equivalent to PHYT-804. Prerequisites: take PHYT-8801, PHYT-8802. Corequisite course: PHYT-8803.

PHYT-8811 Current Issues in Physical Therapy (2.00 cr.)

Covers advanced examination and intervention techniques for patients who have impairments or disabilities. Explores current literature and research in the field. Equivalent to PHYT-811. Prerequisites: take PHYT-8801, PHYT-8802.

PHYT-8832 Human Performance and Wellness (3.00 cr.)

Integrates the role of the physical therapist in caring for healthy individuals and populations with chronic diseases. Focuses on serving individuals and groups that may not have access to physical therapists in traditional settings. Equivalent to PHYT-832. Prerequisite: take PHYT-6820.

PHYT-9783 Applied Research in Physical Therapy (2.00 cr.)

Focuses on the completion of written and oral presentations of a clinical case research project under faculty supervision. Equivalent to PHYT-783. Prerequisites: take PHYT-6743, PHYT-8801.

PHYT-9805 Clinical Internship III (4.00 cr.)

A full-time clinical experience in patient management at an in-patient or out-patient setting. Students will be supervised by qualified, licensed physical therapists at affiliating facilities off-campus. Equivalent to PHYT-805. Prerequisites: take PHYT-8803, PHYT-9783.

PHYT-9807 Clinical Internship IV (5.00 cr.)

A full-time clinical experience in patient management at an in-patient or out-patient setting. Students will be supervised by qualified, licensed physical therapists at affiliating facilities off-campus. Equivalent to PHYT-807. Prerequisites: take PHYT-8803, PHYT-9783. Corequisite course: PHYT-9808.

PHYT-9808 Integrative Physical Therapy Seminar VII (1.00 cr.)

Integrates the content from all courses taken in the program using review and discussion. Focuses on debriefing from the clinical internships and preparing for the physical therapy licensure examination. Equivalent to PHYT-808. Corequisite courses: PHYT-9805, PHYT-9807.

PHYT-9809 Clinical Internship III and IV (9.00 cr.)

A full time clinical experience in patient management at an in-patient or out-patient setting. Students will be supervised by qualified, licensed physical therapists at affiliating facilities off campus. Equivalent to PHYT-809. Prerequisites: take PHYT-8803, PHYT-9783. Corequisite course: PHYT-9808.

PHYT-9875 Research II: Clinical Project (3.00 cr.)

Applies the topics of evidence based physical therapy practice to a clinical research project. This course may be extended beyond the 7 1/2 week time frame to allow for completion of the project if approved by the instructor. Equivalent to PHYT-875. Prerequisite: take PHYT-7825.

Physics

PHYS-1111 Physical Science Foundations (3.00 cr.)

Covers major physical science principles of the universe as simply and clearly as possible. Explains the science processes and methods that will lead to today's picture of the universe and the earth's place in it. Topics covered include motion, gravity, energy, and momentum. The theory of relativity is introduced. Covers matter in its three states, kinetic-molecular models, and the laws of thermodynamics. Equivalent to PHYS-302. Prerequisite: take MATH-1423.

PHYS-1112 Physical Science Foundations Laboratory (1.00 cr.)

Activities are designed to give students a hands-on experience in physical science. A number of activities are designed to help students find patterns and study the relationships among variables in a given experiment. They will set up experiments, record, and analyze the data. In addition, they will state conclusions and evaluate the sources of error. Many of the activities require the use of math as tools such as solving equations and graphing. Equivalent to PHYS-303. Prerequisite: take MATH-1423.

PHYS-3141 Intermediate Physics I (3.00 cr.)

The areas of physics covered in this course include motion, particle dynamics, work and energy, conservation of momentum, rotational dynamics, and thermodynamics. Equivalent to PHYS-352. Prerequisite: take MATH-1423.

PHYS-3142 Intermediate Physics I Laboratory (1.00 cr.)

Students conduct measurements of motion, forces, momentum, energy, and thermal physics. Skills are developed for measuring and finding related physical variables and conceptual relationships. Students develop their understanding of how experimental knowledge is fitted with theory. Equivalent to PHYS-353. Corequisite course: PHYS-3141.

PHYS-3143 Intermediate Physics II (3.00 cr.)

The areas of physics covered in this course include wave motion, electricity, magnetism, light, and optics. Equivalent to PHYS-362. Prerequisite: take PHYS-3141.

PHYS-3144 Intermediate Physics II Laboratory (1.00 cr.)

Students conduct measurements of vibrations and waves, electricity and magnetism, light and optics. Students develop skills used for measuring and finding related physical variables and conceptual relationships. Students develop their understanding of how experimental knowledge is fitted with theory. Equivalent to PHYS-363. Corequisite course: PHYS-3143.

PHYS-3171 University Physics I Lecture (3.00 cr.)

Discusses the application of calculus to topics of kinematics, forces, energy, momentum, rotational motion, and thermodynamics. Equivalent to PHYS-372. Prerequisite: take MATH-3220.

PHYS-3172 University Physics I Laboratory (1.00 cr.)

Apply the concepts and theories covered in PHYS-3171. Set up an experiment, collect data, apply theories and formulas to data, and interpret results. Equivalent to PHYS-373. Corequisite course: PHYS-3171.

PHYS-3181 University Physics II Laboratory (1.00 cr.)

Covers the measurements on vibrations and waves, electricity and magnetism, light and optics. Focuses on measuring and finding related physical variables and conceptual relationship. Discusses the relationship between experimental knowledge and theory. Some experiments will require the use of calculus. Prerequisites: take PHYS-3171, PHYS-3172.

PHYS-3182 University Physics II Lecture (3.00 cr.)

Covers areas of physics to include wave motion, electricity, magnetism, light, and optics. Corequisite course: PHYS-3181.

PHYS-3211 Earth and Space Science (3.00 cr.)

Introduces physical processes occurring within the earth's interior and on the earth's surface. Discusses the future of our solar system and the universe. Equivalent to PHYS-305.

PHYS-3323 Energy and Problems of a Technical Society (3.00 cr.)

The fundamental theories of energy, the physical laws describing its conservation and interconversion, and the use of energy in society are discussed in this course. The commercial forms of energy, extraction of mineral resources, and environmental impacts are discussed. Equivalent to PHYS-325. Prerequisite: take MATH-1423.

PHYS-3435 Meteorology Online (3.00 cr.)

Explores how the Sun, the Earth's tilt, and geography affect weather. Addresses the composition and properties of Earth's atmosphere. Uses real-time and archival data from the American Meteorological Society to allow for the analysis of the weather's effects. Equivalent to PHYS-330. Prerequisite: take MATH-1423.

PHYS-5000 Applied Physics Workshop (1.00-3.00 cr.)

Each Applied Physics Workshop examines a selected topic in Applied Physics. It explores the scientific, technical, societal, and policy aspects of the selected topic and seeks to understand the developmental processes that lead from the fundamental discoveries to the useful application for human society. Topics may vary. Equivalent to PHYS-501. Prerequisite: take MATH-1423.

PHYS-5351 Energy, Resources, and Society (3.00 cr.)

Covers various methods of energy production and the environmental effects of each. Discusses the extraction and utilization of the world's major mineral resources and effects of their use. Examines the effect of various energy sources upon our environment, U.S. standards of living and energy, and resource utilization. Designed for non-science majors. Equivalent to PHYS-525. Prerequisite: take MATH-1423.

Political and Justice Studies

POJS-6100 Theoretical Foundation of Political and Justice Studies (3.00 cr.)

Examines the theories and approaches of political and justice studies, including competing theories of "justice," theories of the state, class, race, and gender conflict and general issues of distribution in society. Equivalent to POJS-605.

POJS-6120 Research Methods (3.00 cr.)

Examines the uses and objectives of empirical research in the social sciences, the principle assumptions underlying the approaches, the fundamental paradigms and current trends in empirical social science research methodologies. The role of theory and research in research design as well emphasizes survey and methods of qualitative data collection and analysis using real-life examples, is also discussed. Equivalent to POJS-607. Prerequisite: take SOSC-4500.

POJS-6150 Civil and Human Rights (3.00 cr.)

This course examines, from both domestic and international perspectives, civil and human rights within the context of legal and social equality and the broad contexts of culture and justice. It explores issues and policies in economic, ideological, and institutional contexts across cultures, and examines the nature, substance, source and place, and politics of human rights. It also examines the theoretical challenges posed to international human rights policy by arguments of radical cultural relativism and political realism, as well as the challenges and opportunities diversity has provided for women and other minorities. Equivalent to POJS-615.

POJS-6200 Theories of Conflict Resolution (3.00 cr.)

Investigates the causes of conflict in its many societal expressions and considers various models of conflict resolution. Particular attention is given to community, ethnic, organizational, labor, and international forms of conflict. Equivalent to POJS-620.

POJS-6250 Community Justice (3.00 cr.)

Theoretical and practical consideration of those aspects of the justice system that comprise what is known as "community justice" including: repairing harm, reducing risk, and empowering community. Examines the community justice principles and how they relate to restorative justice. Equivalent to POJS-625.

POJS-6300 Corporate Influence on Politics (3.00 cr.)

Conceives the ways in which corporations use public relations, advertising, marketing, and lobbying to influence governments, and public policy at the physical and monetary expense of the people. Examines the tobacco, oil, pharmaceutical, agricultural, and other industries through conflict theory lenses to understand the ways in which corporate leaders influence politics and maintain their power. Equivalent to POJS-630.

POJS-6320 Political Sociology (3.00 cr.)

Examines the social, economic, and political bases of power in America. Emphasizes pluralist and elitist theories, class analysis, community power, social control, and structural approaches to studying power. Focuses on analysis of the American political system as a resource for change and an obstacle to change with particular reference to contemporary social movements. Equivalent to POJS-632.

POJS-7035 Topics in American Politics and Public Policy (3.00 cr.)

Explores pivotal theories and current issues in American politics and policy. Examines the interaction between theory, practice, and outcomes in the American political process. Equivalent to POJS-835.

POJS-7036 Topics in Comparative and Global Politics (3.00 cr.)

Current theories, approaches, and issues concerning the global system are considered. Equivalent to POJS-836.

POJS-7037 Topics in Social Justice and Public Policy (3.00 cr.)

Current theories, approaches, and issues concerning justice in society are investigated. Equivalent to POJS-837.

POJS-7070 Survey Research Methods (3.00 cr.)

Explores the selection of problems appropriate for analysis through survey design and analysis, the method of cross-sectional analysis, tests of fit, significance, and model specification. The theoretical constructs of survey research are applied through development of a survey instrument, quantitative data analysis, and proposal design. Equivalent to POJS-707. Prerequisite: take POJS-6120.

POJS-7101 Constitutional Law: Process and Change (3.00 cr.)

Examines the foundation and structure of the U.S. Constitution, the Supreme Court, and the evolving doctrines. Analyzes the Supreme Court decisions to examine civil liberties and due process issues in the context of changing public values and the adversarial system of justice in our society. Equivalent to POJS-710.

POJS-7150 Law, Society, and Public Policy (3.00 cr.)

Discussion of basic aspects of law, analysis of selected public policy topics, and the effects of judicial decisions upon the formation of public policy. Equivalent to POJS-705.

POJS-7180 Public Opinion and American Democracy (3.00 cr.)

The nature and measurement of public opinion, political communication, and its influence on elections, and political behavior in relation to the mass media are examined. Equivalent to POJS-718. Prerequisite: take SOSC-4500.

POJS-7190 Gender, Political Culture, and the Law (3.00 cr.)

This course explores the relation between political culture, the political process, and policy-making and emphasizes women's rights not only as a legal question, but as a question of definition and justice. It also explores feminist legal theory as a framework of analysis, i. e., feminist perspectives on politics, crime, leadership, social change, and feminism. Equivalent to POJS-709.

POJS-7200 Elites and American Democracy (3.00 cr.)

Examines theories and justification of elitism. Deals with comparative political elites, the interrelationship between recruitment, circulation, and democratic accountability in American politics. Equivalent to POJS-720.

POJS-7210 Nonprofit Organizations in Social Justice (3.00 cr.)

Explores the role of the nonprofit, or third sector in American society. The range and depth of issues facing communities requires that nonprofit organizations enhance their ability to respond in more successful ways. This requires that groups specifically, and the sector generally, reconsider mission, impact, and leadership development as they relate to their role in society. Students will gain a thorough understanding of the nonprofit sector, its challenges, and its opportunities. Equivalent to POJS-721.

POJS-7220 Global and U.S. Justice Movements (3.00 cr.)

Examines the current sociological social movement perspectives on the origins, growth and characteristics of social justice movements that focus on expanding human rights, both globally and in the U.S. Considers various levels of movement organizing, including protests and mass demonstrations, transnational political mobilization, civil society, and social movement industries. Equivalent to POJS-722. Prerequisites: take POJS-6100, POJS-6120.

POJS-7250 American Political Behavior (3.00 cr.)

Examines the role of interest groups and parties as they affect American voter behavior. Emphasis will be placed on the recent interpretations of party realignments and dealignments in state and national elections and on the role and participation patterns of the various ethnic minorities in American politics from WWII to the present. Equivalent to POJS-725.

POJS-7300 Social Origins of Violence (3.00 cr.)

Examines the social origin of violence. Equivalent to POJS-730.

POJS-7330 U.S. Foreign Policy (3.00 cr.)

Examines the processes by which United States foreign policy is formulated and implemented, including the role of public opinion, bureaucratic rivalry, and White House/State Department decision-making processes. The nature of American foreign policies with respect to both the major regions of the world and key functional problems is emphasized. Equivalent to POJS-715.

POJS-7350 Third World in Global Development (3.00 cr.)

Examines the North/South dichotomy and the contemporary changes in the Third World in global relations and development. Differentiation in and among the various regions in the Third World will also be analyzed. Equivalent to POJS-735.

POJS-7400 Sexual Politics (3.00 cr.)

Examines the major theoretical approaches used in the sociology of sexuality and gender. Analyzes the ways in which social institutions regulate the social construction of sexuality, with attention to gender, races, and class differences in sexuality experiences. Examines the regulation of sexual and gender expressions through institutions and social norms. Equivalent to POJS-840. Prerequisite: take POJS-6100.

POJS-8100 Labor Workforce Social Change (3.00 cr.)

Uses labor market techniques to show job stratification in urban communities. Examines mechanisms to increase employment growth along with issues of labor migration. Equivalent to POJS-810.

POJS-8110 Wealth, Power, and Inequality (3.00 cr.)

Examines wealth and income distribution and analyzes ideological and political forces in an unequal society. Equivalent to POJS-811.

POJS-8150 Contemporary Theories of Social Justice (3.00 cr.)

Provides an overview of the major currents of political and social thought in the post-enlightenment period. Social justice and the proper relationship between individual, state, and society will be examined. Equivalent to POJS-805. Prerequisite: take POJS-6100.

POJS-8160 Comparative Urban Redevelopment (3.00 cr.)

Analyzes the redevelopment of older American cities in comparative context. Draws upon examples of older non-American cities for theoretical understanding and conceptual clarity. Equivalent to POJS-806.

POJS-8170 Qualitative Research Methods (3.00 cr.)

Explores the selection of problems appropriate of analysis through qualitative analysis. Develops a range of expertise of more qualitative research methods, ranging from standard participant observational techniques and semi-structured interviewing through exploratory methods, such as grounded theory and critical social research. Practical skill development and theoretical "meaning-making" constitute the courses main emphases. Equivalent to POJS-808.

POJS-8190 Criminal Justice System and Process Analysis (3.00 cr.)

A survey of the critical issues in the administration of the criminal justice system is presented. The topics will include the historical development of the American criminal justice system; philosophy and current policy practices of the system; the discretionary decision-making points in the administration of justice; and current issues and trends of the three major components of the system. Historic and contemporary criminological research and analysis will also be included. Equivalent to POJS-819.

POJS-8200 Presidency, Congress, and the Courts (3.00 cr.)

Examines the historical and legal evolution of the presidency, Congress, and the courts in the American political process. Focuses on the Constitutional foundation of the three branches of government, as well as the practical implications of this separation of powers. Equivalent to POJS-820.

POJS-8210 Public Policy and Politics (3.00 cr.)

Focuses on how basic institutions of American government - executive, legislative, and judicial - interact in the process of public policy formulation, implementation, and evaluation. Issues are examined from an intergovernmental perspective in a constantly changing federalist structure. The ethical dimensions of public policy decisions and actions of policy-makers are explored. Equivalent to POJS-821. Prerequisite: take POJS-8200.

POJS-8240 Intergovernmental Relations (3.00 cr.)

Analysis of the relationships between and among the various governmental units at the federal, state, and local levels in the context of American federalism. Special topics in intergovernmental relations will be discussed from year to year. Equivalent to POJS-824. Prerequisite: take POJS-8200.

POJS-8250 Causative Theories of Crime in Society (3.00 cr.)

Focuses on the study of criminal behavior as it relates to several varieties of crime. Emphasizes the evolution of crime and its origins within society. Equivalent to POJS-825. Prerequisites: take POJS-8150, POJS-8190, POJS-8200.

POJS-8300 Comparative Political and Justice Systems I (3.00 cr.)

Examines general comparative approaches to politics and justice in post-industrial, industrial, and emerging states. Topics studied include the nature of power structure, political development and culture, economic strategies, and leadership. Equivalent to POJS-830. Prerequisites: take POLS-5150 or CJUS-4565.

POJS-8310 Comparative Political and Justice Systems II (3.00 cr.)

Examines political institutions and selected policy areas and processes of governments in Western and Eastern Europe. Relationships between various state systems and policy outputs will be analyzed. Equivalent to POJS-831. Prerequisite: take POJS-8300.

POJS-8390 Challenges of Globalization (3.00 cr.)

Current theories, approaches and issues concerning the global system are considered in the context of their impact on the foreign policy of the United States. Equivalent to POJS-839.

POJS-8450 International Law and Organization (3.00 cr.)

Examination of the underlying principles of international law and the evolving organizational structure of the global system. The role of nation-states, intergovernmental, and nongovernmental organizations are considered. Equivalent to POJS-845. Prerequisites: take POJS-8300, POLS-3110, POLS-5360.

POJS-8460 Crime, Justice, and the Media (3.00 cr.)

An examination of the interrelationship of crime, justice, and the contemporary media in American society. Topics include the history of media coverage of crime and justice; the social construction of crime; an analysis of news media; the impact of sweeps months on crime news; police, courts, and corrections in the media; reality television; movies and copycat crime; and coverage of criminals and delinquents; and the social effects of crime and justice news. Media coverage of drugs and gangs will be explored as well as media stereotypes of minorities. Equivalent to POJS-846.

POJS-8500 Victimology (3.00 cr.)

An examination of the relationship between victims of crime and the criminal justice system. The topics will include an analysis of the characteristics of crime victims; victim role; intimate versus stranger crime; victim reporting and non-reporting patterns; National Crime Victimization Survey (NCVS) results; treatment of victims by various segments of the criminal justice system; victim assistance programs; victim compensation and/or restitution; and victim impact statements and their affect on the criminal court. Victim-blaming arguments will be explored, as well as sexual assault, child abuse, and the victimization of the elderly. Equivalent to POJS-850. Prerequisite: take POJS-6100.

POJS-8700 Graduate Research (1.00-4.00 cr.)

Individual reading, research, and/or project in political science under the supervision of the faculty. Equivalent to POJS-870.

POJS-8800 Internship (1.00-4.00 cr.)

Designed to provide political science students with supervised practical experiences in applied settings. Equivalent to POJS-880.

POJS-8890 Five University Consortium Minority Internship (1.00-9.00 cr.)

Designed to provide graduate Five University Consortium minority interns with supervised experiences in federal, state, local, and corporate settings in areas such as intergovernmental relations, policy analysis, and decision-making. Equivalent to POJS-889.

POJS-8970 Internship Project (6.00 cr.)

Designed to provide political/justice studies students with supervised practical experiences in applied settings. This includes the application of the student's knowledge and skills in a culmination experience approved by a faculty committee and resulting in a final paper which will be publicly presented. Equivalent to POJS-885.

POJS-8981 Directed Readings (3.00 cr.)

Supervised readings on the theory, methods, and approaches of the political science areas of American politics, public policy, justice studies, comparative politics, and international relations. Equivalent to POJS-869.

POJS-8982 Directed Readings (3.00 cr.)

Supervised readings on the theory, methods, and approaches of the political science areas of American politics, public policy, justice studies, comparative politics, and international relations. Equivalent to POJS-869.

POJS-8990 Graduate Thesis Project (3.00 cr.)

Provides a forum for in-depth analysis of the selected topics of master's degree candidates. Hypothesis formation, operational procedures, and the foundation of each student's thesis/project will be publicly presented and discussed. Equivalent to POJS-890. Prerequisites: take POJS-8150, POJS-8190, POJS-8200, POJS-8210, POJS-8300, POJS-8310.

POJS-8999 Directed Scholarship: Political and Justice Studies (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must have received a grade of "CO" in a designated capstone course. NOTE: This course is variable in credit hours, repeatable (not replaceable) and is P/NC option. Equivalent to POJS-898.

Political Science

POLS-2100 American National Government (3.00 cr.)

Examines U.S. governmental institutions, the informal pressures that influence them, and the policies produced by the governing process. Equivalent to POLS-302.

POLS-2101 Principles of Political Science (3.00 cr.)

Comprehensive analysis of the nature of politics, contemporary approaches to the study of political science, issues in political geography, and a review of the issues and problems faced by federal, state, and local governments under the impact of modern conditions. Equivalent to POLS-301.

POLS-2200 Local Governmental Systems (3.00 cr.)

Examines local government in the United States. Emphasizes the legal basis and functioning of local jurisdictions in Illinois. Equivalent to POLS-320.

POLS-3110 Transformation of the Global System (3.00 cr.)

Integrated analysis of processes and issues in international politics, with emphasis on substantive topics in selected sections of the world. Equivalent to POLS-311.

POLS-3150 Comparative Political Analysis (3.00 cr.)

Employs a problem-based (problematic) approach to the study of comparative politics. By considering the historical context, culture, and economics as they are expressed by varying political units such as nation-states, this investigation allows one to understand and appreciate the similarities and differences between countries.

POLS-3250 International Political Economy (3.00 cr.)

Surveys the evolution of the International Political Economy (IPE) in three distinct periods. The first period extends from the sixteenth century to Marx's Capital. The second period follows IPE from the later 1800s to the 1920s when the formal separation between politics and economics took place. Finally, the third period brings us to the contemporary systemic issues confronting our interdependent world.

POLS-3600 International Organizations (3.00 cr.)

Deals with the complexities of international affairs and those factors that affect them. Focuses on the role of governmental and nongovernmental organizational mechanisms in the relations of nations. Equivalent to POLS-310.

POLS-3900 Seminar in Civic Engagement (3.00 cr.)

Introduces the fundamental question of the relationship between politics and the state as developed by selected political philosophers from the Greeks to the present. Emphasizes concepts of democracy, power, individual freedom, the state, and the obligations of citizens and rulers with relevance to current political developments.

POLS-4100 Hispanic Experience in the U.S. (3.00 cr.)

Examines the Hispanic/Latino experience in the United States with a consideration of both the immigrant experience and the challenges of subsequent generations. Attention is given to the political, socio-economical, and cultural dimensions of this experience.

POLS-4200 U.S. and Illinois Elections (3.00 cr.)

Studies elections in Chicago, the suburbs, the state, and the nation. Examines current trends and includes participation of past or present elected officials. Equivalent to POLS-520. Prerequisite: take POLS-3110.

POLS-4300 The Chicago Political Tradition (1.00 cr.)

Examines past and current politics in the City of Chicago. Analyzes thoroughly twentieth century Chicago mayors. Equivalent to POLS-530.

POLS-4330 Modern Middle Eastern History and Politics (3.00 cr.)

Examines Islamic civilization since the age of European expansions, imperialism, westernizations, nationalism, and modernization. Course covers Arab countries and Israel, Iran, and Turkey.

POLS-4350 Debate and Public Advocacy (3.00 cr.)

Study of argumentation: that is, evidence, reasoning, and construction of briefs, also, practice informal and information debate, and public discourse on current issues.

POLS-4375 Conflict Resolution (3.00 cr.)

Investigates the causes of conflict in its many societal expressions and considers the various models of conflict resolution. Particular attention is given to community, ethnic, organizational, labor and international forms of conflict.

POLS-4380 International Peace Initiative (3.00 cr.)

Examines global peace building initiatives, including strategies and practices base upon restorative justice.

POLS-4400 Constitutional Law (3.00 cr.)

Uses U.S. Supreme Court decisions to examine the fundamental civil liberties guaranteed to the American people. Emphasizes how the court accommodates constitutional doctrines to changing public values. Equivalent to POLS-440. Prerequisite: take POLS-2100 or POLS-2200.

POLS-4500 Political Communication (3.00 cr.)

Examines communication in the context of political campaigns. Attention is given to the public relations elements of campaigns in multiple media to show how political candidates earn America's attention and the people's votes. Applications of these tactics in other contexts are also discussed.

POLS-4600 Political Theory (3.00 cr.)

Introduces the fundamental questions of politics and the state as developed by selected political philosophers from the Greeks through the present. Emphasizes concepts of democracy, power, individual freedom, the state, and obligations of citizens and rulers with relevance to current political developments. Equivalent to POLS-460. Prerequisite: take POLS-2100.

POLS-4650 Empowering Community: from Self to Service (3.00 cr.)

Explores the relationship between the individual and community with the goal of promoting service learning and civic engagement. Approaches of both a theoretical and applied nature will be examined with the goal of promoting future engagement in community organizations.

POLS-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in political science under the supervision of the faculty. Equivalent to POLS-470.

POLS-4800 Internship (1.00-4.00 cr.)

Designed to provide political science students with supervised practical experiences in applied settings. Equivalent to POLS-480.

POLS-4890 Five University Consortium Minority Internship (1.00-12.00 cr.)

Designed to provide undergraduate Five University Consortium Minority Interns with supervised experiences in federal, state, local, and corporate settings in areas such as policy analysis and corporate relations. Equivalent to POLS-489. Prerequisite: take POLS-2101.

POLS-4990 Political Struggle: Empowerment and Change (3.00 cr.)

Applies the various theoretical frameworks and approaches to studying political science to practical, real world issues and experiences. Students will employ an interdisciplinary approach as they examine and analyze the intersection of power, resource distribution, identify, and participation in American democracy.

POLS-5000 Topics in Political Science (1.00-3.00 cr.)

Deals with topics of current interest, exploring several aspects of the topic using a variety of methodologies from the discipline of political science. Equivalent to POLS-510.

POLS-5150 Principles and Theories in Political Studies (3.00 cr.)

Designed to introduce students to the major traditional and contemporary principles and theoretical foundations of political science. Can serve as a substitute for POLS301 and POLS302 toward meeting preparatory requirements for the M.A. in Political and Justice Studies. Equivalent to POLS-505.

POLS-5310 Readings, Black Politics, and the American Political System (3.00 cr.)

A study of the patterns of black politics in the development of African American participation in the American political and economic systems. Equivalent to POLS-531.

POLS-5360 Problems in International Politics (3.00 cr.)

Examines the behavior of and interaction between nation-states at the global level to understand the problems that are confronted in the international political system. Equivalent to POLS-536.

POLS-5380 Urban Politics (3.00 cr.)

Offered in both lecture format and as a correspondence course. Analyzes critical issues of urbanization confronting American political institutions. Provides an overview of the nature and scope of the urban polity and provides a conceptual framework for analyzing and evaluating the critical issues in American urban areas. Equivalent to POLS-538.

POLS-5400 Political Economy of Urban Development (3.00 cr.)

This course will identify underlying assumptions and their implications for how patterns of urban development are explained. It will examine specific recent trends in urban change. This will include post-World War II developments as seen in the fiscal crisis of the '70s, restructuring of the '80s, and the increasing internationalization of the economy and the rise of global cities. Equivalent to POLS-540.

POLS-5480 Politics of Latin America (3.00 cr.)

This course, intended for both graduate and undergraduate students, offers a comprehensive analysis of the political and economic landscape of Latin America. It examines, from a critical and multidisciplinary perspective, the political processes of the region. Special emphasis is placed on integrating the economic, historical, and cultural dimensions of the Latin American political experience. Particular attention is given to the issues brought about by the global economic order of the post-Cold War era. Equivalent to POLS-548. Prerequisites: take POLS-2101, POLS-5150.

POLS-5630 Seminar: Comparative Urban Future (3.00 cr.)

Analyzes problems of urban processes and redevelopment as they relate to central city minorities. Discussed within a comparative and futuristic perspective. Equivalent to POLS-563.

POLS-6200 U.S. and Illinois Elections (3.00 cr.)

Studies elections in Chicago, the suburbs, the state, and the nation. Examines current trends and includes participation of past or present elected officials. Equivalent to POLS-520. Prerequisite: take POLS-2200.

POLS-6300 The Chicago Political Tradition (1.00 cr.)

Examines past and current politics in the City of Chicago. Analyzes thoroughly twentieth century Chicago mayors. Equivalent to POLS-530. Prerequisite: take POLS-2200.

POLS-7370 Political Geography (3.00 cr.)

A review and extension of theoretical constructs in political geography where problems arise when the boundaries of sovereign states fail to separate national groups and when corporate limits fail to encompass all segments of a metropolis. Equivalent to POLS-737.

POLS-8450 International Law and Organization (3.00 cr.)

Examination of the fundamental rules of international law and its relation to the state and the individual. Discussion of cases, statutes, and treaties is included. Equivalent to POLS-845. Prerequisite: take POJS-8300.

Psychology

PSYC-3101 Principles of Psychology (3.00 cr.)

Provides a comprehensive overview of psychology. Presents concepts, theories, and data from various subfields in psychology, including sensation-perception, learning, memory, personality, abnormal, social, developmental, and physiological. Equivalent to PSYC-310.

PSYC-3102 Thinking and Writing in Psychology (3.00 cr.)

Introduces thinking and writing in the discipline of psychology. Emphasizes critical thinking in the field of psychology, writing in specific formats and expected styles, effective communication, communication of abstract propositions, logical arguments, empirical observations, experimental results, and their interrelations and interactions. Equivalent to PSYC-400. Prerequisites: take PSYC-3101 and take ENGL-3101 or ENGL-2910.

PSYC-3201 Developmental Psychology (3.00 cr.)

Covers theories related to cognitive, emotional, and physical growth. Similarities among people in their development are examined, as well as differences. Emphasizes an understanding of the important methods, terms, theories, and findings in the field of developmental psychology. Equivalent to PSYC-412.

PSYC-3202 Adolescence (3.00 cr.)

Investigates the major issues of adolescence and questions the stereotypical view. Critically reviews research with special attention to identity, intimacy, sex roles, and family dynamics. Focuses on normal adolescent development, but also surveys pathological outcomes. Equivalent to PSYC-5210, PSYC-510. Prerequisite: take PSYC-3201.

PSYC-3203 Adulthood (3.00 cr.)

Presents theories of adult development as they relate to major problems of adulthood. Investigates the availability of resources for adult development in local communities. Equivalent to PSYC-515. Prerequisite: take PSYC-3201.

PSYC-3204 Geropsychology (3.00 cr.)

Discusses a wide range of issues related to the aging process and older adults. Emphasizes psychological facets of aging. Explores how biology, sociology, economics, politics, demography, and other academic, scientific, and clinical disciplines bring a unique perspective to our understanding of aging. Equivalent to PSYC-5219, PSYC-519. Prerequisite: take PSYC-3201.

PSYC-3310 Personality Theories (3.00 cr.)

Involves the comparative study of nineteenth and twentieth century psychodynamic, behaviorist, and humanist theorists on the nature of the person. Considers personality from a variety of theoretical perspectives. Equivalent to PSYC-410. Prerequisite: take PSYC-3101.

PSYC-3345 Social Psychology (3.00 cr.)

Evaluation of methods of inquiry and identification of levels of analysis as applied to problems of thought and behavior in American society. Study of interpersonal relations and communications, social power, persuasion, decision-making, attitude change, and group membership. Equivalent to PSYC-445. Prerequisite: take PSYC-3101.

PSYC-3430 Abnormal Psychology (3.00 cr.)

Covers the recognition, classification, development, and prognosis of the range of human problems usually defined as psychiatric disorders. Focuses on difficulties in currently used systems of defining and classifying human problems in adaptation and adjustment. Examines the medical model assumptions underlying the most widely used diagnostic system. Equivalent to PSYC-430. Prerequisite: take PSYC-3101.

PSYC-3470 Introduction to Clinical Psychology (3.00 cr.)

Introduces the basic concepts and theories used in clinical psychology. Focuses on three areas of clinical psychology: (1) fundamental concepts, including current issues and ethics; (2) psychological assessment and diagnosis; and (3) overview of the main school of psychotherapy. Equivalent to PSYC-5444, PSYC-544. Prerequisites: take PSYC-3310, PSYC-3430.

PSYC-3520 Cognitive Psychology (3.00 cr.)

Examines cognitive processes, sometimes called "higher mental processes." Includes topics such as the history and methods of cognitive psychology, cognitive neuroscience, attention, perception, memory, knowledge representation, language, problem solving, decision-making, creativity, cognitive development, and human and artificial intelligence. Equivalent to PSYC-422. Prerequisite: take PSYC-3101.

PSYC-3602 Health Psychology (3.00 cr.)

Investigates the mind body relationship to see how these factors relate to primary prevention, stress and pain management, chronic and terminal illnesses, and the patient practitioner relationship. Reviews related research from the biopsychosocial model and how this relates to the new DRG (diagnostic related group) now emerging in the healthcare system. Equivalent to PSYC-502. Prerequisite: take PSYC-3101.

PSYC-3605 Love: What Everyone Needs to Know (3.00 cr.)

Explores the intricacies and problems of close, committed, interpersonal relationships including marriage. Discusses important relationship concepts and standards. Equivalent to PSYC-305.

PSYC-3606 Sex: What Everyone Needs to Know (3.00 cr.)

Provides an introduction to human sexuality. Emphasizes understanding the bio-psychological factors in human sexual functioning. Provides an opportunity for students to explore their own values and attitudes. Equivalent to PSYC-306.

PSYC-3650 Creating a Healthy Lifestyle (3.00 cr.)

Focuses on our patterns of eating, exercise, sleep, stress management, and how those choices create our lives. Students will facilitate classmates in making changes where needed in diet, exercise, meditation, and stress management. Guest presentations on aspects of nutrition, yoga, tai chi, stretching exercises, ayurvedic medicine, and acupuncture will be included. Equivalent to PSYC-508. Prerequisite: take PSYC-3101.

PSYC-3675 Psychophysiology (3.00 cr.)

Discusses how information processing and changes in human behavior are viewed through physiological techniques. Topics may include: attention, attention deficit, memory, language, error detection, aging, conflict, emotion, immune responses, stress, marriage, and gender. Equivalent to PSYC-550. Prerequisite: take PSYC-3101.

PSYC-3820 Forensic Psychology (3.00 cr.)

Examines the legal system's basic assumptions and procedures in light of social scientific evidence pertaining to human behavior relevant to the rights of defendants, victims, children, and mental patients, including areas of Clinical Psychology in which psychologists act as expert witnesses and consultants.

PSYC-3840 Industrial Psychology (3.00 cr.)

Introductory course in industrial psychology that examines psychological research and theory that relates to the following topics: personnel evaluation, personnel selection, personality and interest factors, equal employment opportunity, personnel training and work motivation, human factors in job design, and leadership. Equivalent to PSYC-340.

PSYC-4070 Topics in Personal and Professional Growth (1.00-3.00 cr.)

Introduces significant issues in contemporary psychology. Allows students to understand themselves, their major, their future careers, and the complex interactions that exist among these three phenomena. Course information will be conveyed through lectures, guest speakers, readings, in-class exercises, small group discussions, and written assignments covering a variety of topics that vary by term. Equivalent to PSYC-573. Prerequisite: take PSYC-3101.

PSYC-4130 Professional Standards in Human Services and Research (3.00 cr.)

Focuses on ethical principles and standards in human service and research professions. Explores application to hypothetical situations involving professionals, research subjects, and clients. Studies various values, philosophical positions, and legal cases. Equivalent to PSYC-530. Prerequisites: take PSYC-3101, PSYC-3102, PSYC-3430.

PSYC-4475 Introduction to Family Dynamics (3.00 cr.)

Provides a beginning understanding of the family as a social system and the concepts involved in family counseling. Students analyze their role in their own family system. Equivalent to COUN-544, COUN-5544. Prerequisites: take PSYC-3310, PSYC-3430.

PSYC-4490 Physical and Sexual Abuse of Children (3.00 cr.)

Provides an overview of the nature of child abuse. Includes legal and ethical issues involved in definition, identification and treatment, and current theories of causation as well as treatment. Equivalent to COUN-510. Prerequisites: take PSYC-3101, PSYC-3201.

PSYC-4520 Cognitive Development (3.00 cr.)

Provides students with the opportunity to understand cognitive development as a key aspect of growth through the life cycle, analyze their own cognitive style, and relates them to their study habits and lifestyle. Equivalent to PSYC-5523, PSYC-523. Prerequisite: take PSYC-3101.

PSYC-4524 Principles of Learning and Behavior (3.00 cr.)

Introduces behavioral psychology and addresses the basic principles of learning theory. Applies these theories to clinical practice in terms of the treatment of mental disorders through behavior modification in diverse environments. Equivalent to PSYC-524. Prerequisite: take PSYC-3101.

PSYC-4610 Laboratory in Personal Stress Management (2.00 cr.)

Focuses on the individual's internal and external stresses and theories and methods of reducing stress such as lifestyle, exercise, and nutrition. Equivalent to PSYC-506, PSYC-5610.

PSYC-4620 Laboratory in Personal Growth (2.00 cr.)

Identification of personal growth issues in terms of life goals and priorities. Intrapersonal communication processes identify and examine meaning assigned to various objects or events in the student's life. Equivalent to PSYC-527, PSYC-5620.

PSYC-4630 Laboratory in Interpersonal Growth (2.00 cr.)

Students identify their interpersonal communication strengths and areas of difficulties and examine the interpersonal communication processes through which they initiate, maintain, and terminate relationships. Equivalent to PSYC-531.

PSYC-4690 Practicum Seminar in Stress Management (3.00 cr.)

Students are required to do eight hours of practicum per week and to teach holistic stress management techniques to individuals, families, or groups. Equivalent to PSYC-509. Prerequisites: take PSYC-3602, PSYC-3650, PSYC-4610.

PSYC-4750 Research Methodology (3.00 cr.)

Introduces the basic principles of research. Focuses on basic knowledge about research methods and the development of analytic skills. Emphasizes the identification of researchable problems, and the development of literature search skills, testable hypotheses, appropriate research design, and methods of measurement. Equivalent to PSYC-560. Prerequisites: take PSYC-3102, STAT-4720.

PSYC-4770 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in psychology under the supervision of the faculty. Equivalent to PSYC-470.

PSYC-4780 Principles of Psychological Testing (3.00 cr.)

Reviews fundamentals statistics as a prelude to the study of a cross section of techniques and instruments use in the measurement and evaluation of human behavior, conduct, and characteristics. Studies individuals and group measures of intelligence, neuropsychological, achievement, and both objective and clinical instruments and methods. Equivalent to PSYC-580. Prerequisites: take PSYC-3310, PSYC-3430, PSYC-4750, STAT-4720.

PSYC-4828 Understanding Men (3.00 cr.)

Draws upon knowledge from social sciences, history, and other fields to understand male sex roles and stereotypes and their effects upon men's health, emotional development, male-female relationships, sexuality, fatherhood, friendships, and work. Equivalent to PSYC-514.

PSYC-4829 Psychology of Women (3.00 cr.)

Study of the effects of physiological and psychological variables on the behavior of women, includes dependence, aggression, self-esteem, and motive to achieve. Discusses social and mental health issues currently affecting women's welfare. Equivalent to PSYC-529. Prerequisite: take PSYC-3201.

PSYC-4840 History and Systems of Psychology (3.00 cr.)

Surveys major theories of psychology and their relationship to current professional practices. Focus upon understanding and comparing the origin and development of different psychological perspectives in terms of metatheoretical issues. Equivalent to PSYC-440. Prerequisite: take PSYC-3101.

PSYC-4880 Field Experience (2.00 cr.)

Provides an opportunity for students to become exposed to the mental health field. Includes observation, assessment, application of theory, psychological concepts, and treatment issues within an agency and/or business settings under the supervision of qualified professionals and faculty. Equivalent to PSYC-480. Prerequisites: take PSYC-3310, PSYC-3430, PSYC-4130.

PSYC-4950 Psychological Issues and Social Values (3.00 cr.)

Explores psychological issues, social values, and personal responses to social issues and choices. Integrative review of psychology emphasizing class discussion, oral presentation, and written reports. A capstone experience. Equivalent to PSYC-546. Prerequisites: take PSYC-3102, PSYC-3430, PSYC-4130.

PSYC-6070 Topics in Psychology (1.00-3.00 cr.)

Involves experts in psychology presenting selected topics covering new developments in the field. Includes discussion of topics and implications for theory and practice. Participants have an opportunity to discuss new developments and, where appropriate, apply techniques and skills. Equivalent to PSYC-630.

PSYC-6110 Measurements and Evaluation (3.00 cr.)

Covers concepts of validity, reliability, norms, item analysis, and standardization; selection, administration, and interpretation of published psychological and educational tests; development of measurable goals by decision-makers for various evaluation purposes, and the development and/or selection of necessary tests and collection of data; legal and ethical issues. Equivalent to PSYC-610. Prerequisite: take STAT-4720.

PSYC-6160 Ethical Legal Issues in Psychology (3.00 cr.)

Focuses on ethical and legal issues faced by professional psychologists functioning in clinical, research, and teaching roles. Emphasizes the application of the ethical code of the psychology profession, published by the American Psychological Association, and related Illinois legal statutes. Equivalent to PSYC-760. Prerequisites: take PSYC-3310, PSYC-3430.

PSYC-6221 Psychopathology (3.00 cr.)

Examines diagnostic categories selected for in-depth study of the literature conceptualizing a problem, its development, and various treatment recommendations. Focuses on evaluation of research approaches and findings. Equivalent to PSYC-821. Prerequisite: take PSYC-3430 or PSYC-3470.

PSYC-6229 Graduate Seminar in Human Development (3.00 cr.)

Presents up-to-date research and theory in developmental psychology. Evaluates developmental issues at all stages of life. Provides links between theoretical and applied issues of development including the potential influences of a variety of factors. Equivalent to PSYC-829.

PSYC-6475 Introduction to Family Dynamics (3.00 cr.)

Provides a beginning understanding of the family as a social system and the concepts involved in family counseling. Students analyze their role in their own family system. Equivalent to COUN-544, COUN-5544.

PSYC-6490 Physical and Sexual Abuse of Children (3.00 cr.)

Provides an overview of the nature of child abuse. Includes legal and ethical issues involved in definition, identification and treatment, and current theories of causation as well as treatment. Equivalent to COUN-510. Prerequisites: take PSYC-3101, PSYC-3201.

PSYC-6606 Cognitive/Educational Psychology (3.00 cr.)

Examines current theories and research regarding human learning processes. Emphasis is given to recent developments in cognitive, social, constructivist views of learning, development, and instruction. Special emphasis is paid to instructional interventions applicable to the development of cognitive and academic skills: including concept formation, perception, language comprehension, problem-solving, intelligence, and motivation. Equivalent to PSYC-806.

PSYC-6610 Laboratory in Personal Stress Management (2.00 cr.)

Focuses on the individual's internal and external stresses and theories and methods of reducing stress such as lifestyle, exercise, and nutrition. Equivalent to PSYC-506, PSYC-5610.

PSYC-6620 Laboratory in Personal Growth (2.00 cr.)

Identification of personal growth issues in terms of life goals and priorities. Intrapersonal communication processes identify and examine meaning assigned to various objects or events in the student's life. Equivalent to PSYC-527, PSYC-5620.

PSYC-6630 Laboratory in Interpersonal Growth (2.00 cr.)

Students identify their interpersonal communication strengths and areas of difficulties and examine the interpersonal communication processes through which they initiate, maintain, and terminate relationships. Equivalent to PSYC-531.

PSYC-6635 Roles and Issues in School Psychology (3.00 cr.)

Introduction to the discipline of school psychology. Covers various roles and functions in the school-based practice of school psychology. Includes coverage of the history, organization, and operation of the schools, professional standards, and ethical and legal issues. Equivalent to PSYC-835. Prerequisites: take EDUC-2310, SPED-4100.

PSYC-7240 Topics in Multicultural Psychology (3.00 cr.)

Develops an understanding and valuing of diversity, based on the principles of awareness, knowledge, and skills as they relate to the areas of worldview, identity, and acculturation. Equivalent to PSYC-740.

PSYC-7320 Theories of Psychotherapy (3.00 cr.)

Provides students with an extensive background in the theoretical and historical origins of various approaches to psychotherapy (e.g. cognitive-behavioral, interpersonal process, psychodynamics, etc.). Focuses on empirically validated therapies, and their application with disorders most prevalent among adults and children. Equivalent to PSYC-820. Prerequisite: take PSYC-6110. Corequisite course: PSYC-6221.

PSYC-7325 Introduction to Child Therapy (2.00 cr.)

Applies theory and current practice with play media for children with a range of needs. Focuses on emotional difficulties and life-stresses. Utilizes group supervision of natural observations of children. Equivalent to PSYC-700. Prerequisites: take PSYC-6229, PSYC-7320.

PSYC-7430 Psychotherapy Techniques I (2.00 cr.)

Covers clinical interviewing skills and application of a therapeutic approach, and basic listening and interviewing skills as a part of an client assessment. Directive and non-directive approaches to interviewing through demonstrations, role-playing and structured exercises will be explored. Equivalent to PSYC-830. Prerequisites: take PSYC-6160, PSYC-7320.

PSYC-7431 Psychotherapy Techniques II (3.00 cr.)

Provides students with more advanced technical approaches for treatment using various theoretical approaches to psychotherapy (e.g. humanistic, interpersonal process, cognitive-behavioral, applied behavioral analysis, etc.). Builds on basic therapeutical skills, and focuses on applying evidence based techniques to common disorders in diverse populations. Equivalent to PSYC-831. Prerequisite: take PSYC-7430.

PSYC-7528 Graduate Seminar in Cognitive Psychology (3.00 cr.)

Examines recent theoretical developments in cognitive psychology. Emphasizes the areas of visual perception, concept formation, and language comprehension. Equivalent to PSYC-828. Prerequisite: take PSYC-3520.

PSYC-7570 Independent Study (1.00-6.00 cr.)

Individual reading, research, and/or project in psychology under the supervision of the faculty. Equivalent to PSYC-870.

PSYC-7635 Individual Assessment I: School Age (3.00 cr.)

Focuses on the individual assessment of a multiculturally diverse population of school-age children. Covers norm-referenced assessment, including intelligence and achievement, and curriculum-based assessment. Includes coverage of observational assessment and introduction to psychological report writing. Equivalent to PSYC-846. Prerequisites: take PSYC-6221, PSYC-6229, PSYC-6606, PSYC-6635.

PSYC-7645 Individual Assessment II: Preschool (3.00 cr.)

Focuses on the screening and assessment of infants and preschool-age children. Skill development for in-depth assessment, intervention, and development of family service plans. Equivalent to PSYC-848. Prerequisites: take PSYC-6221, PSYC-6229, PSYC-6606, PSYC-6635.

PSYC-7650 Prevention and Intervention Strategies for School-aged Children (3.00 cr.)

Covers empirically derived, evidence-based interventions for a wide variety of academic, behavioral, and social problems experienced by school children. Content will include both prevention and intervention efforts at the individual, group, and classroom levels. Systematic evaluation of intervention activities will be included as an essential component of evidence-based practice. Equivalent to PSYC-852. Prerequisites: take PSYC-6606, PSYC-6635, PSYC-7320.

PSYC-7801 Introduction to Mindfulness Practice (3.00 cr.)

Investigates how mindfulness can be used in the practice of psychotherapy as an overall framework and as guide for specific interventions. Students will learn how to use mindfulness to foster therapeutic connection and how to utilize techniques for clients to practice in between sessions. Special attention will be given to the therapist's mindfulness practice and its effect on the client.

PSYC-7802 Laboratory in Mindfulness and Psychotherapy I (2.00 cr.)

Focuses on the issue of mindfulness from a beginner's perspective. Provides an intensive immersion experience in the practice of mindfulness meditation.

PSYC-7803 Advanced Mindfulness and Psychotherapy Practice (3.00 cr.)

Exposes students to current research and application of mindfulness principles to psychotherapy. Core mindfulness knowledge and skills will be emphasized, as well as the way these skills can be integrated into the wellness practices of diverse individuals and communities. The course also includes and emphasizes experiential learning in class as well as outside the classroom setting. Prerequisites: take PSYC-7801, PSYC-7802.

PSYC-7804 Laboratory in Mindfulness and Psychotherapy II (2.00 cr.)

Focuses on the issue of mindfulness from an advanced beginner's perspective. Provides an intensive immersion experience in the practice of mindfulness meditation. Prerequisites: take PSYC-7801, PSYC-7802.

PSYC-7805 Integrative Seminar I (2.00 cr.)

Assists students to become mindful practitioners who are creative, reflective, aware, and compassionate. Students will refine their meditation practice while strengthening their commitment to utilize mindfulness-based approaches in their personal and professional lives. Prerequisites: take PSYC-7803, PSYC-7804.

PSYC-7806 Laboratory in Mindfulness and Psychotherapy III (2.00 cr.)

Focuses on the issue of mindfulness from an intermediate perspective. Provides an intensive immersion experience in the practice of mindfulness meditation. Prerequisites: take PSYC-7803, PSYC-7804.

PSYC-8414 Play and Expressive Arts Therapy: Individual (4.00 cr.)

Conducts individual play therapy with two children in school, hospital, or mental health settings. Applies theory and current practice with play media for children with certain needs. Utilizes group clinical supervision from the faculty and peers, and integrates insights in ongoing clinical work with the children. Applies theory and current practice with play media for children with certain needs. Equivalent to PSYC-814.

Prerequisite: take PSYC-7320.

PSYC-8440 Group Psychotherapy (3.00 cr.)

Explores the methods of organizing different types of groups with attention to examining group therapy with diverse populations, open and informative dialogue about group issues, and investigation of relevant research and evaluation processes. Discusses related ethical issues.

Equivalent to PSYC-840. Prerequisites: take PSYC-6160, PSYC-7430.

PSYC-8463 Practicum in Psychotherapy (3.00 cr.)

Provides students with an opportunity to develop basic clinical skills that can be applied to clients with a range of psychopathologies (e.g. schizophrenia, personality disorders). Provides students with the knowledge about working with different populations and diversity issues.

Equivalent to PSYC-863. Prerequisites: take COUN-7725 or COUN-7730 and take PSYC-7431, PSYC-7325, or PSYC-8440.

PSYC-8500 Thesis Preparation (1.00 cr.)

Matriculate through the research process in preparation for completing a master's thesis project. Discusses organizational strategies and specific tasks that are part of the thesis process. Completion of a master's thesis proposal, which meets departmental requirements, is expected.

Equivalent to PSYC-850. Prerequisites: take PSYC-8549, STAT-8260.

PSYC-8501 Teaching in Psychology and Counseling 3.00 cr.)

Provides an introduction to pedagogical theories, styles, and strategies as they apply to college teaching of psychology and counseling. Explores a range of options available to college instructor in the presentation of course material, learning assessment tools, test construction, and grading. Equivalent to PSYC-801.

PSYC-8549 Advanced Research Seminar (3.00 cr.)

Advanced study of both quantitative and qualitative research design in the social sciences. Emphasis is placed on the explicit statement of a research hypothesis, the relation of the research design to both the hypothesis and the proposed statistical analyses; and the limitations that the design placed on the conclusions that can be drawn from the data. Topics include experimental design, quasi-experimental design, case study research, time-series analyses, and observational studies. Equivalent to PSYC-849. Prerequisites: take PSYC-4750, STAT-4720.

PSYC-8590 Internship (1.00-6.00 cr.)

Designed to provide students in psychology with supervised practical experiences in applied settings. Equivalent to PSYC-880.

PSYC-8653 Human Neuropsychology I: Brain Function (3.00 cr.)

Explores the theories and analysis of brain function, structure, and brain behavior relationships. Equivalent to PSYC-853. Prerequisite: take PSYC-6229.

PSYC-8654 Human Neuropsychology II: Clinical Assessment (3.00 cr.)

Covers the administration, scoring, and interpretation of standardized procedures in diagnosis of brain damage. Integrates findings with other assessment techniques. Trains students in the Halstead-Reitan and/or Luria methods. Equivalent to PSYC-854. Prerequisite: take PSYC-8653.

PSYC-8757 Individual Assessment III: Personality (3.00 cr.)

Covers the assessment of social/emotional functioning and personality, including necessary skills and knowledge problems referred to the school psychologist. Behavior rating scales, observation, and projective techniques are covered. Includes recommendations for intervention. Equivalent to PSYC-857. Prerequisites: take EDUC-2310, SPED-4100, PSYC-6229, PSYC-6635. Corequisite course: PSYC-6606.

PSYC-8858 Advanced Seminar in Assessment and Intervention (3.00 cr.)

Covers advanced assessment and intervention strategies for assessing and remediating educational needs of culturally diverse students. Report writing, norm-referenced testing, curriculum-based assessment, functional behavioral assessment, and direct/indirect interventions are emphasized. Equivalent to PSYC-858. Prerequisite: take PSYC-8965.

PSYC-8920 Internship Program I (3.00 cr.)

Internship program that expands the skill level for beginning level clinicians. Focuses on working with clients in a clinical setting, including specific skills related to observation, conceptualization of cases, and assessment/evaluation of the intervention process. Equivalent to PSYC-891.

Prerequisite: take PSYC-8463.

PSYC-8921 Internship Program II (3.00 cr.)

Internship program that expands the skill level for intermediate level clinicians. Focuses on working with clients in a clinical setting, including specific skills related to observation, conceptualization of cases, and assessment/evaluation of the intervention process. Equivalent to PSYC-892.

Prerequisite: take PSYC-8920.

PSYC-8950 Graduate Thesis Project (4.00 cr.)

Student works closely with advisor and/or three faculty members (principal advisor, secondary advisor in specialty area, scope advisor outside specialty area) developing and completing original thesis/project proposal. Equivalent to PSYC-890.

PSYC-8960 Internship in School Psychology I (3.00 cr.)

Full-time placement in a school setting under the direct supervision of a school psychologist. Taken after completion of the M.A. in Psychology. Enrollment only after acceptance by an approved internship site. Equivalent to PSYC-920.

PSYC-8961 Internship in School Psychology II (3.00 cr.)

Full-time placement in a school setting under the direct supervision of a school psychologist. Taken after completion of the M.A. in Psychology. Enrollment only after acceptance by an approved internship site. Equivalent to PSYC-921.

PSYC-8965 Practicum in School Psychology (4.00 cr.)

Practice in a school setting. Participation in direct and indirect interventions, including psychometric, curriculum-based and functional behavioral assessment, related intervention, counseling, and consultation. Direct experience with organization and operation of the schools. Equivalent to PSYC-865.

PSYC-8999 Directed Scholarship: Masters in Psychology (1.00-2.00 cr.)

Under the supervision of a graduate faculty member, students register for this course to maintain active enrollment in their graduate program while completing requirements for their degree and must have received a grade of "CR" in a designated capstone course. NOTE: This course is variable (1-2) in credit hours, repeatable (not replaceable), and is P/NC option. Equivalent to PSYC-898.

Public Administration

PADM-2100 Introduction to Public Administration (3.00 cr.)

Offered in both lecture format and as a correspondence course. Examines theories, history, and current issues of administration in government. Equivalent to PADM-301.

PADM-4100 Public Policy Analysis (3.00 cr.)

Introduces students to conceptual models for understanding government policy-making and implementation. Provides information about various governmental policies. Equivalent to PADM-435. Prerequisite: take PADM-2100.

PADM-4200 Planning Theory (3.00 cr.)

Seminar discussion of the various practical, theoretical, and ethical problems and issues now facing the design professions. Includes demands for greater concern for "user behavior" and "user needs," collaboration between design professionals and behavioral scientists, and control of behavior through design. Equivalent to PADM-430. Prerequisite: take PADM-2100.

PADM-4300 Public Personnel Administration (3.00 cr.)

Studies and evaluates principles, practices, and problems of personnel administration in government. Equivalent to PADM-420. Prerequisite: take PADM-2100.

PADM-4400 Introduction to Urban Planning (3.00 cr.)

Provides an introduction to urban planning, a history of its efforts, and a review of the elements in professional practice today. Equivalent to PADM-450. Prerequisite: take PADM-2100.

PADM-4450 Local Government Planning (3.00 cr.)

Study and analysis of current methods, techniques, and practices of land use oriented urban planning. Emphasizes current land use control in urban planning, including zoning, subdivision control, site planning, transportation planning, and the general plan. Covers population, economic, and land use studies, quantitative methods, and social services planning. Equivalent to PADM-455. Prerequisite: take PADM-2100.

PADM-4500 Public Finance and Budgeting (3.00 cr.)

Surveys the structure, processes, politics, economics, and operational public administrative aspects of government revenue and expenditure policy. Provides students with an introduction and overview of public budgeting processes and problems emphasizing the role of the public administrators and other government officials in deciding and resolving issues of revenue and expenditure policy. Equivalent to PADM-460.

PADM-4800 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in public administration under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within public administration and an instructor to sponsor the work. Equivalent to PADM-470.

PADM-4880 Internship (3.00 cr.)

Designed to combine individual career counseling and work outside of the classroom with institutional learning settings. Equivalent to PADM-480.

PADM-5000 Topics in Public Administration (1.00-3.00 cr.)

Designed for public administration professionals and students desiring advanced study on selected topics in public administration, public policy, and related issues. Involves experts addressing topics of current interest in the field of public administration/public management, planning, and public policy with emphasis on current and emerging topics, issues, trends, societal factors, and their analysis. Equivalent to PADM-550.

PADM-5100 Government and the Public (3.00 cr.)

Studies the communication and human relations problems between government and the people it serves. Emphasizes efforts to alleviate the problems. Equivalent to PADM-510. Prerequisite: take PADM-2100.

PADM-5110 Economics of Urban Planning (3.00 cr.)

Analyzes various economic factors impinging on the planning process. Includes economics of urbanization, forces of supply and demand in urban lands, the building industry, the real estate market, cyclical fluctuations, rents and prices, problems of housing, urban redevelopment, real estate investment, economic notions of welfare, and counteraction of market failure in the supply of public goods. Equivalent to PADM-505. Prerequisite: take PADM-2100.

PADM-5120 Urban Growth Management (3.00 cr.)

Investigates how communities control the rate, timing, location, and size of development. Includes review of a series of community growth management plans and regulations. Equivalent to PADM-520. Prerequisite: take PADM-2100.

PADM-5130 Using Microcomputers in Planning (2.00 cr.)

Introduces the use of microcomputers in planning. Emphasizes the use of existing application programs and the microcomputer as a tool to assist planners and other local government officials with the performance of their duties. Covers word processing, database management, and spreadsheet analysis as related to planning. Equivalent to PADM-508. Prerequisite: take PADM-2100.

PADM-5140 Suburban Policy Issues (3.00 cr.)

Studies the substance of federal, state, and regional public policies as they affect suburban communities. Includes techniques used by municipal officials to deal with these issues and other strictly local issues. Ordinarily, public and private sector experts participate. Equivalent to PADM-521. Prerequisite: take PADM-2100.

PADM-5150 Environmental Land Use Planning (3.00 cr.)

Examines ecological design methods and land use control techniques for resolving the conflict between land development and environmental protection. Considers use control and preservation techniques for sensitive lands. Equivalent to PADM-536. Prerequisite: take PADM-4400.

PADM-5160 Planning Methodology (3.00 cr.)

Reviews and explores the role of selected planning and evaluation methods in the overall planning process. Includes topics on goals and attitude surveys; assessing probability and utility; frameworks for land use; environmental, economic, and social impact of development plans; cost-benefit analysis; and the planning balance sheet. Equivalent to PADM-540. Prerequisite: take PADM-4400.

PADM-5170 Regional Planning (3.00 cr.)

Broad coverage of regional planning, its basic concepts, techniques of analysis, and planning methods. Equivalent to PADM-545. Prerequisite: take PADM-2100.

PADM-5200 Administrative Law (3.00 cr.)

Describes the processes, procedures, and legal limitations under which government agencies make, officials carry out, and courts review administrative orders, rules, and regulations. A significant part of the course is devoted to the issue of government officials' liability. Equivalent to PADM-560. Prerequisite: take PADM-2100.

PADM-5300 Public Safety Administration (3.00 cr.)

Studies the administration of public safety departments, especially police departments. Includes topics on organization structure, personnel, communication, community relations, and relations among police and fire services. Equivalent to PADM-580. Prerequisite: take PADM-2100.

PADM-5320 Law Enforcement and the Constitution (3.00 cr.)

Examines the requirements and limitations imposed upon the law enforcement process by the Constitution. Emphasizes the U.S. Supreme Court's interpretations of the fourth, fifth, sixth, and fourteenth amendments. Equivalent to PADM-584. Prerequisite: take POLS-2100.

PADM-5870 Workshops on Zoning and Planning (1.00 cr.)

Designed for citizen planners and professional zoning administrators to provide introduction to key concepts and to develop basic skills. Includes special topics on zoning and planning. Equivalent to PADM-500.

PADM-5880 Practicum in Urban Planning (3.00 cr.)

An experiment in concentrated planning education for advanced students in planning. A workshop-based, problem-solving experience designed to consist of supervised field research and development projects on behalf of community groups who have requested specific technical assistance. Provides enhanced professional education through the clinical application of professional planning skills. Equivalent to PADM-585. Prerequisites: take PADM-2100, PADM-4400.

PADM-7100 Political and Legal Frameworks for Public Administration (3.00 cr.)

Covers the basic features and contexts of public administration, primarily for MPA students. It provides a brief but comprehensive overview of American public administration and the political, legal, and economic contexts within which it operates. The course focuses upon American government and politics, the American legal system, the policy process, and public administration. Equivalent to PADM-801. Prerequisite: take PADM-2100 or PADM-7100.

PADM-7200 Economic Analysis in Public Administration (3.00 cr.)

This is an advanced level study of economic principles and practices as applied in public administration. Its focus is on the economic aspects of the urban dynamic, including the evolution of the urban economy, the relationship between the urban economy and public finance, imports, exports, and import substitution in the urban economy, the design of effective strategies for urban economic development, and the application of various urban economic analyses for public administrators. Equivalent to PADM-802. Prerequisites: take PADM-2100 or PADM-7100 and take PADM-7700 or MGMT-6700 or [STAT-21700 and STAT-3700].

PADM-7300 Seminar in Public Human Resource Administration (3.00 cr.)

Evaluates the principles, practices, and problems of human resource administration in government. Focuses on the perspectives of human resource management, equal employment opportunity, analyzing and staffing jobs, compensation, training and development, and employee and labor relations. Equivalent to PADM-810. Prerequisite: take PADM-2100 or PADM-7100.

PADM-7400 Public Organization Theory and Behavior (3.00 cr.)

Examines theories and research seeking to explain public organizations and the behavior of people within them, primarily for MPA students. Engages students on both basic theories in these areas and also on the distinctive features of theories on public organizations and their participants. Addresses questions having to do with how people and resources are arrayed and react in the public sector. Prerequisite: take PADM-7100.

PADM-7500 Seminar in Public Budgeting (3.00 cr.)

Examines advanced questions about budgeting in government, including various revenues, expenditure, and debt. Emphasizes development of knowledge and skills necessary to prepare and defend a sound financial plan in the public sector, including understanding of essential concepts and rules of government accounting and the use of computer spreadsheets to analyze and present financial data. Also includes application of economic theories to government budget decisions. Equivalent to PADM-812. Prerequisite: take PADM-2100 or PADM-7100.

PADM-7700 Data Analysis for Public Administration (3.00 cr.)

This course focuses on the collection and analysis of primary and secondary data. Topics covered include measurement, descriptive statistics, probability distributions, and inferential statistics areas including hypothesis testing, contingency tables, and various forms of regression analysis. The course emphasizes the use of data analysis in public sector environments, particularly policy and program analysis. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8000 Advanced Topics in Public Administration (1.00-3.00 cr.)

Investigates in-depth and at an advanced level a topic of substantial contemporary interest and relevance to the profession of public administration. Equivalent to PADM-860. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8100 Seminar in Urban Government (3.00 cr.)

Examines advanced questions about the functioning of urban governments in America. Equivalent to PADM-820. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8200 Ethics for Public Administration (3.00 cr.)

Examines normative issues as they relate to American public administration. Equivalent to POLS-863. Prerequisite: take PADM-7100.

PADM-8300 Public Finance (3.00 cr.)

This course covers public finance from the perspective of public administration. From a theoretical perspective, it focuses on the economic situations of public organizations relative to citizens. From a practical perspective, it focuses on public financial processes of public organizations such as accounting and purchasing. Prerequisite: take PADM-7200.

PADM-8400 Seminar in Public Planning (3.00 cr.)

Deals with a series of case study problems reflecting contemporary planning issues. Uses a multidisciplinary approach to case study analysis. Emphasizes energy, environmental, social, and economic planning. Equivalent to PADM-851. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8500 Seminar in Public Policy (3.00 cr.)

Examines advanced questions about the development of public policy. Equivalent to PADM-840. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8550 The Dynamic of the Public Policy Process (3.00 cr.)

An analysis of the policy formulation process, using current issues in federal, state, and local government to illustrate the dynamic nature of the process and factors influencing decision-makers. Equivalent to PADM-814. Prerequisite: take PADM-2100 or PADM-7100.

PADM-8600 Seminar in Research Methods (3.00 cr.)

Introduces students to a variety of standard research methods. Deals with developing research instruments and using and analyzing research techniques. Includes application and interpretation of statistics. Equivalent to PADM-852. Prerequisites: take PADM-7100, MGMT-6700, PADM-7700, or STAT-2700 and take STAT-3700.

PADM-8800 Independent Study (3.00 cr.)

Independent study is intended to provide better students an opportunity to study a topic of their choice in public administration under professional supervision. Only students prepared to devote considerable time and effort should undertake an independent study. Students contemplating an independent study should first choose a definite area for investigation within public administration and an instructor to sponsor the work. Equivalent to PADM-870.

PADM-8880 Internship (3.00 cr.)

Designed to combine individual career counseling and work outside of the classroom in combination with institutional learning settings. Equivalent to PADM-880.

PADM-8890 Graduate Thesis/Project (3.00 cr.)

Provides an opportunity for intensive study of a problem chosen by the student. A candidate who is approved for the thesis option will be required to defend the thesis orally. The thesis option is limited to outstanding students who have been recommended by a minimum of two faculty in the College of Business and Public Administration and approved by the dean. Equivalent to PADM-890.

PADM-8900 Problems in Applied Public Management (3.00 cr.)

A capstone course designed to draw upon all the knowledge and skills acquired in the curriculum. Students will complete (1) major case studies in the format of management consultants' reports analyzing problems and developing solutions for actual or hypothetical organizations, and (2) a research paper. Equivalent to PADM-865.

PADM-8980 Master's Research Practicum (3.00 cr.)

A demonstration of the ability to apply advanced management knowledge and skills through the accomplishment of a substantial project, task, or set of tasks in an administrative agency. The master's research practicum consists of two distinct parts. Requires both performance of the task(s) and completion of a major written report thereon, approved by three faculty members. A final course option for the MPA program. Equivalent to PADM-867. Prerequisite: take PADM-8600.

PADM-8990 Master's Research Paper (3.00 cr.)

For public administration students who are working on their research projects. Advanced standing as an MPA student required for registration. Equivalent to PADM-855.

Reading

See Education - Reading

Social Sciences

SOSC-2100 Survey of Social Science (3.00 cr.)

Offered as a correspondence course only. Examination of the organizing principles and methods of the basic social sciences. Equivalent to SOSC-311.

SOSC-3150 Approaches and Interconnections: Scientific Research and Knowledge Production (3.00 cr.)

Introduces the processes involved in knowledge production. Examines how different societies and cultures have used different sources of knowledge to address basic social questions. Special emphasis is placed on statistical inference and concrete applications of the scientific method to the natural and social sciences, the arts, and the humanities. Equivalent to SOSC-315.

SOSC-3200 Perspectives on Diversity (3.00 cr.)

Explores the differences and the similarities between diverse groups and individuals in our multicultural society. Examines issues of race, ethnicity, religion, gender, class, sexual orientation, ability, and age. Equivalent to SOSC-320.

SOSC-3250 International Political Economy (3.00 cr.)

This course surveys the evolution of International Political Economy (IPE) in three distinct periods. The first period extends from the sixteenth century to Marx's Capital. The second period follows IPE from the late 1800s to the 1920s, when the formal separation between politics and economics took place. Finally, the third period brings us to the contemporary systemic issues confronting our interdependent world. Equivalent to SOSC-325.

SOSC-4101 Cultures of Labor in the Modern World (3.00 cr.)

A comparative, interdisciplinary perspective on the effect of Industrial and post-Industrial Era change on the everyday lives of working people in Latin America, Africa, Europe, and the United States. The impact of globalization on workers in the First and Third Worlds, the search for new visions and practices of citizenship, democracy, gender roles, and development will be assigned in light of labor history. Equivalent to SOSC-501.

SOSC-4110 Foundations of Social Science (3.00 cr.)

Provides a systematic and historical approach to the development of metatheoretical perspectives and major theories in the core social sciences, including geography, anthropology, sociology, and political science. Equivalent to SOSC-400.

SOSC-4200 Methods and Skills in Cross-Cultural Understanding (3.00 cr.)

Imparts knowledge drawn from theoretical and applied social sciences to examine cross-cultural transactions, diversity, multiculturalism, and the problem of difference in a regional, national, and international context. It provides students with an opportunity to develop reflective and reflexive skills, thinking and writing skills that have theoretical and practical application. Equivalent to SOSC-5200, SOSC-500. Prerequisite: take ANTH-3100.

SOSC-4300 Global Political Transformation and Economic Integration (3.00 cr.)

Examines contemporary global issues, trends in the transformation processes and international relations in the context in the 21st century. Approaches the study of these processes and entities from an interdisciplinary and integrated perspective using economics, politics, socio-culture, and history. Special emphasis will be placed on issues related to class, gender, ethnicity, and power, causes of conflicts, as well as potential solutions to contemporary global crises. Equivalent to SOSC-430.

SOSC-4305 Urban Studies: Introduction to the City (3.00 cr.)

Appraisal and analysis of urban growth and dynamics in relation to government and politics, social and economic life, environmental issues, and the structure of the urban environment. An interdisciplinary approach to the study of American urban environments. Equivalent to SOSC-530.

SOSC-4410 Ethnicity, Culture, and Politics (3.00 cr.)

Explores the interrelations among ethnicity, culture, and politics in American political life. Examines these concepts in an effort to understand culture, society, race, ethnicity, and their relationship to politics and society. Equivalent to SOSC-541.

SOSC-4500 Research Methods in the Social Sciences (3.00 cr.)

Overview of methods that political scientists and sociologists employ to collect and analyze current data. Ethics in social research, formulating research questions, survey and experimental design, interviewing, sampling, direct observation, content analysis, evaluation research, and critiques of science methods. Equivalent to SOSC-450.

SOSC-4510 The Measure of Knowledge: Quantitative Research Methods (3.00 cr.)

Develops skills in research design for projects that integrate the different areas of knowledge. Special emphasis is placed in the formulation of public policy projects. It is an applied course, which investigates the variety of statistical models used in research: analysis of variance models, regression models, and qualitative models. Concentrate on the framing of statistical models to fit the types of analysis encountered in integrated social research. A second emphasis will focus upon the interpretation of statistical results deriving from tests of the various models. Equivalent to SOSC-451. Prerequisite: take SOSC-4500 or INST-3100.

SOSC-4560 Computer Applications in Social Science Research (3.00 cr.)

Use of the computer for political and social analysis and research. Introduction to computing equipment and operating procedures, utilization of select programs, and general data processing applications for political and social research. Equivalent to SOSC-560. Prerequisite: take SOSC-4500.

SOSC-4575 Women and Social Action (3.00 cr.)

A focus on ordinary women who are working collectively in myriad social settings to empower themselves and others. This media-based course explores barriers women face, goals and strategies for social change, and the rewards and challenges of social action. Equivalent to SOSC-575.

SOSC-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in social sciences under the supervision of the faculty. Equivalent to SOSC-470.

SOSC-4800 Internship (1.00-4.00 cr.)

Designed to provide the social sciences student with supervised practical experiences in applied settings. Equivalent to SOSC-480.

SOSC-4900 Seminar: Values, Technology, and Social Change (3.00 cr.)

This senior seminar will allow students to apply their knowledge of the foundations of the social sciences to the analysis of an ever-changing social, economic, and political world; thereby integrating the four major sub-fields of the GSU Social Sciences program, i.e., society and culture, economics, politics, and history. Equivalent to SOSC-490.

SOSC-6410 Ethnicity, Culture, and Politics (3.00 cr.)

Explores the interrelations among ethnicity, culture, and politics in American political life. Examines these concepts in an effort to understand culture, society, race, ethnicity, and their relationship to politics and society. Equivalent to SOSC-541.

Social Work

SOCW-2100 Introduction to Social Work (3.00 cr.)

Explores the historical development and foundations of the field of social welfare and the profession of social work. Analyzes professional concerns related to values, skills, knowledge, policies, programs, methods, practice, technology, and licensing. Equivalent to SOCW-320.

SOCW-3100 Social Welfare Policy I (3.00 cr.)

Provides beginning understanding of the scope of social welfare programs in the United States. Building on a liberal arts prospective, it draws from economics, philosophy, history, and political science to provide an understanding of the present-day United States "social welfare services" evolution through historical events in Europe and America that influenced policy formulation and delivery systems. Equivalent to SOCW-325.

SOCW-3101 Interprofessional Teamwork in the Health and Human Services (3.00 cr.)

Designed for the health or human services student interested in understanding the team model of service delivery. Examines teams and teamwork and provides opportunities to develop team practice and team analysis skills that are applied both in class, agency, and other organization situations. Field visits required. Students in any field will also acquire useful knowledge and skills. Equivalent to SOCW-565.

SOCW-3102 Children and Families: Problems, Issues, and Services (3.00 cr.)

Examines the organization of child welfare programs and the existing set of social services designed to help the child and his/her family. Considers the effects of economic, social, and political developments upon past and present services. Explores future planning of services for children. Equivalent to SOCW-575.

SOCW-3103 Aging: Policies, Problems, and Services (3.00 cr.)

Introduces present day aging in America. Covers issues that older people and their families face, and deals with issues that an aging society will raise for all of us. Explores policies and services affecting the elderly and their families, presently available, and those needed to fill the gap in service. Equivalent to SOCW-578.

SOCW-3200 Interviewing Skills (3.00 cr.)

Designed to provide the basic interviewing skills needed for effective practice with client systems of all sizes. Equivalent to SOCW-330.

SOCW-3300 Diversity and Social Justice (3.00 cr.)

Emphasizes understanding of the experience of diversity, racism, sexism, classism, and ageism as they affect life chances, lifestyles, and psychological development. Examines assumptions, myths, beliefs, and biases that block effective relationships between professionals and client systems. Equivalent to SOCW-335.

SOCW-3400 Human Behavior in the Social Environment I (3.00 cr.)

First of a two-term course sequence that explores theories related to human behavior in interaction with the environment, within the context of a strengths and empowerment perspective. Emphasis on knowledge acquisition of the bio-psycho-social development of diverse individuals and families. Examines the effects of discrimination and oppression on human well-being. Equivalent to SOCW-340. Corequisite course: SOCW-3600.

SOCW-3500 Human Behavior in the Social Environment II (3.00 cr.)

Second of a two-term course sequence that explores theories related to human behavior in interaction with the environment, within the context of a strengths and empowerment perspective. Emphasizes knowledge acquisition of the behavior of diverse people in groups, organizations, and communities, including relationships between these systems, individuals and families, and social and economic justice. Equivalent to SOCW-342. Prerequisite: take SOCW-3400. Corequisite course: SOCW-3700.

SOCW-3600 Generalist Social Work Practice I (3.00 cr.)

Focuses on formulation and implementation of intervention at the small system level of individuals and families emphasizes assessment, goal development, planning, and application of methods of intervention within the context of the generalist model and concludes with evaluation and termination of the intervention. Equivalent to SOCW-341. Corequisite course: SOCW-3400.

SOCW-3700 Generalist Social Work Practice II (3.00 cr.)

Examines the group, organization, and community from the generalist perspective. Focuses on the practitioner as a facilitator of group and social system assessment, intervention, change and evaluation. Emphasizes involvement in group and skill-building exercises for effective group and community problem-solving, including the effects of diversity on group process. Equivalent to SOCW-343. Prerequisite: take SOCW-3600. Corequisite course: SOCW-3500.

SOCW-4100 Law for Human Service Professionals (3.00 cr.)

Introduction to law for social workers, including the study of legal issues, procedures, and selected legislation relevant to the practice of social work in varied settings. Examines the use of legal authority in the provision of services in the areas of income maintenance, justice, family services, rights of children, biological parents, foster and adoptive parents, divorce counseling, entitlement programs and reform, and other areas requiring knowledge of legal issues and processes. Equivalent to SOCW-459.

SOCW-4101 Urban Dynamics (3.00 cr.)

Examines the metropolitan community as a complex environment in which most human services are delivered; explores and compares the inter-relationship of urban forces, survey research, and community practice; and provides students with the experience of applying community theory to social problem analysis by developing a written assessment of community profiles for prioritizing community-based services. Equivalent to SOCW-530.

SOCW-4102 Child Welfare Practice (3.00 cr.)

Prepares students to enter practice in a public or private child welfare setting. Provides the knowledge, skills, and values required for effective work in an agency setting. Covers agency policies, procedures, practice issues, specialized skills, values, and knowledge. Child welfare professionals participate in instruction. Equivalent to SOCW-576. Prerequisite: take SOCW-3600.

SOCW-4103 Management and Supervision in the Human Services (3.00 cr.)

Selective methods course in management/social administration focusing on the classical and behavioral schools of management and covering the functions of planning, organizing, controlling, supervising, charting, communicating, designing, evaluating, leading, problem-solving, and decision-making. Examines the ethical dilemmas in administering not-for-profit health and human service programs in an ever-changing free market economy in the U.S. Students learn to analyze an organization and apply change and development strategies. Equivalent to SOCW-595. Prerequisite: take SOCW-3700.

SOCW-4104 Social Work in Healthcare (3.00 cr.)

Focuses on how social workers in hospitals, clinics, and other health systems assist people in making better use of healthcare facilities, in preventing illness, dealing with the impact of illness and disability on themselves and their families, and preserving their health. Emphasizes the necessity for effective collaboration with other health professionals on interdisciplinary health teams for optimum services. Equivalent to SOCW-570. Prerequisite: take SOCW-3700.

SOCW-4200 Social Welfare Policy II (3.00 cr.)

Building on Social Welfare Policy I, examines social welfare policy perspectives, as reflected in values, interests, and political processes, contemporary social services programs, and policies review in the context of their historical development, reviewed and applied analysis models and strategies are to understand current policies and their ramifications on society. Equivalent to SOCW-425. Prerequisite: take SOCW-3100.

SOCW-4300 Social Work Research (3.00 cr.)

Provides a research orientation necessary for effective direct service professional practice in health and human services and focuses on foundation content in research methods and designs that may be utilized by social workers to evaluate practice and programs as well as to advance practice knowledge. Equivalent to SOCW-465. Prerequisite: take SOCW-3700.

SOCW-4500 Field Practicum I (3.00 cr.)

Field Practicum I is 210 clock-hour generalist practice experience designed for application and integration of social work principles, methods, ethics and values, and skills. Equivalent to SOCW-496. Prerequisite: take SOCW-3700. Corequisite course: SOCW-4501.

SOCW-4501 Field Integrative Seminar I (3.00 cr.)

Promotes integration and synthesis of knowledge, skills, and values learned in the previous social work curriculum relating to social welfare policy and services, human behavior in the social environment, practice, and research. In a shared learning environment, utilizing the ecological system and generalist perspectives, students examine the health and human service settings in which they are placed. Equivalent to SOCW-497. Corequisite course: SOCW-4500.

SOCW-4600 Field Practicum II (3.00 cr.)

A 210 clock-hour generalist practice field experience designed for application and integration of social work principles, methods, ethics and values, and skills. Equivalent to SOCW-498. Prerequisite: take SOCW-4500. Corequisite course: SOCW-4601.

SOCW-4601 Field Integrative Seminar II (3.00 cr.)

Seeks to further integrate knowledge, values, and skills acquired by students with the practice experiences carried out at the field agency. Uses the context of a shared learning environment to understand the ecological system, generalist perspectives, and the health and human service settings in which students are placed. Equivalent to SOCW-499. Prerequisite: take SOCW-4501. Corequisite course: SOCW-4600.

SOCW-5000 Topics in Social Work (1.00-4.00 cr.)

Provides for review and analysis of specific topics, issues, intervention, and service approaches, as well as new developments in professional social work and related areas in a workshop format. Also provides opportunities to interact with noted social work scholars and experts in other health, human service, and education fields of professional practice, and to apply related knowledge and skills. Equivalent to SOCW-500.

SOCW-6100 The Social Work Profession in a Diverse Society (3.00 cr.)

Prepares and explores critical thinking about definitions of social work, the defining features of the profession, its historical struggles and accomplishments, and its core values and examines content on social and economic justice globalization and the impact of these processes on clients, practitioners, and programs. Equivalent to SOCW-601.

SOCW-6200 Human Behavior in the Social Environment I (3.00 cr.)

This is the first of a two-semester course sequence, which critically analyzes social science theories and conceptualizations related to human development as it occurs in interaction with the environment. The emphasis of this course is on knowledge acquisition, and also on understanding diversity, empowerment, and the promotion of social and economic justice. Equivalent to SOCW-605.

SOCW-6300 Human Behavior in the Social Environment II (3.00 cr.)

This course is the second in a two-trimester sequence covering social science theories related to human development as it occurs in interaction with the environment. This course focuses on the behavior of people in groups, organizations, and communities, including the influence of these mezzo and macro systems upon individuals and families. Equivalent to SOCW-606. Prerequisite: take SOCW-6200.

SOCW-6400 Social Welfare Policies and Provisions (3.00 cr.)

Provides an overview of the history and context for the development of social welfare policies and services, analyses of contemporary policies and programs, the process of policy formulation, and the role of the social worker in advocating for social justice in the social welfare system. Equivalent to SOCW-615. Prerequisite: take SOCW-6100.

SOCW-6500 Social Work Research (3.00 cr.)

This course covers the scientific research process and its contributions to the advancement of social work practice knowledge. Both quantitative and qualitative research and the phases of the research process will be included. Equivalent to SOCW-665.

SOCW-7050 Foundation Topics in Social Work (1.00-3.00 cr.)

Designed to cover various topics of interest to MSW students and social work practitioners. Topics covered will enhance knowledge and skills in very specific areas of social work practice, or will address issues and dilemmas faced by the social work practitioner in everyday practice. Equivalent to SOCW-750.

SOCW-7100 Social Work Practice II (3.00 cr.)

Explores and applies the generalist model of practice with groups, organizations, and communities. Equivalent to SOCW-706. Prerequisite: take SOCW-7200.

SOCW-7200 Social Work Practice I (3.00 cr.)

This first of a two-semester course sequence covers the generalist model of practice, which incorporates eco-systems and strengths perspectives. The model will be applied to practice with individuals, families, and groups. Additionally, the course will cover how to adapt to crisis situations. Equivalent to SOCW-705.

SOCW-7300 Practice with Groups (3.00 cr.)

Overview of the practice with groups, examining types, formation, purposes, roles, functions communication, goals, guidelines, and evaluation. Practice opportunities for application of theory and skills in class. Equivalent to SOCW-760. Prerequisite: take SOCW-6200 or SOCW-7200.

SOCW-7500 Field Practicum I (2.00 cr.)

Provides generalist practice experiences in a field placement setting and is comprised of a minimum of 210 clock-hours in a social work agency under the supervision of a professional social worker. Focuses on the integration and application of social work knowledge, the incorporation of social work values and ethics, and the development of generalist practice skills. Equivalent to SOCW-720. Prerequisites: take SOCW-6100, SOCW-6200, SOCW-7200. Corequisite course: SOCW-7501.

SOCW-7501 Field Practicum I: Integrative Seminar (2.00 cr.)

Provides a structured learning environment for demonstrating generalist practice skills. The Field Practicum I: Integrative Seminar is the first of a two-part sequence in the foundation field experience and is taken concurrently with Field Practicum I. Equivalent to SOCW-721. Prerequisites: take SOCW-6100, SOCW-6200, SOCW-7200. Corequisite course: SOCW-7500.

SOCW-7600 Field Practicum II (2.00 cr.)

Focuses on the integration, application, and syntheses of social work knowledge, values, and skills. This is the second course in a two-part sequence, which provides a structured environment for the demonstration of generalist practice skills. Requires 210 clock-hours in a practicum site under the supervision of a professional social worker. Equivalent to SOCW-725. Prerequisites: take SOCW-7500, SOCW-7501. Corequisite course: SOCW-7601.

SOCW-7601 Field Practicum II: Integrative Seminar (2.00 cr.)

The second in a two-course sequence, which focuses on sharing experiences in the field practicum agency and engaging in exercises Equivalent to SOCW-726. Prerequisites: take SOCW-7500, SOCW-7501. Corequisite course: SOCW-7600.

SOCW-7801 Introduction to Mindfulness and Psychotherapy (3.00 cr.)

Investigates how mindfulness can be used in the practice of psychotherapy as an overall framework and as guide for specific interventions. Students will learn how to use mindfulness to foster therapeutic connection and how to utilize techniques for clients to practice in between sessions. Students will learn to apply mindfulness to issues such as anxiety, depression and psychophysical disorders. Special attention will be given to the therapist's mindfulness practice and its effect on the client. Students will be expected to engage in mindfulness meditation in and outside the classroom in becoming a mindfulness oriented therapist.

SOCW-7802 Laboratory in Mindfulness and Psychotherapy I (2.00 cr.)

Focuses on the issue of mindfulness from a beginner's perspective. Provides an intensive immersion experience in the practice of mindfulness meditation.

SOCW-7803 Advanced Mindfulness and Psychotherapy Practice (3.00 cr.)

Exposes students to current research and application of mindfulness principles to psychotherapy. Core mindfulness knowledge and skills will be emphasized, as well as the way these skills can be integrated into the wellness practices of diverse individuals and communities. The course also includes and emphasizes experiential learning in class as well as outside the classroom setting. Prerequisites: take SOCW-7801, SOCW-7802.

SOCW-7804 Laboratory in Mindfulness and Psychotherapy II (2.00 cr.)

Focuses on the issue of mindfulness from an advanced beginner's perspective. Provides an intensive immersion experience in the practice of mindfulness meditation. Prerequisites: take SOCW-7801, SOCW-7802.

SOCW-7805 Integrative Seminar in Mindfulness I (2.00 cr.)

Assists students to become mindful practitioners who are creative, reflective, aware, and compassionate. Students will refine their meditation practice while strengthening their commitment to utilize mindfulness-based approaches in their personal and professional lives. Prerequisites: take SOCW-7803, SOCW-7804.

SOCW-7806 Laboratory in Mindfulness and Psychotherapy III (2.00 cr.)

Focuses on the issue of mindfulness from an intermediate perspective. Provides an intensive immersion experience in the practice of mindfulness meditation. Prerequisites: take SOCW-7803, SOCW-7804.

SOCW-8000 Transition to Advanced Social Work (1.00 cr.)

Synthesizes the foundation curriculum and facilitates continued development and application of critical consciousness in the students' advanced social work concentration. Emphasis is placed on a social justice framework in social work. Equivalent to SOCW-801.

SOCW-8001 Transition to Advanced Social Work (1.00 cr.)

Synthesizes the foundation curriculum and facilitates continued development and application of critical consciousness in the students' advanced social work concentration. Emphasis is placed on a social justice framework in social work. Equivalent to SOCW-801.

SOCW-8002 Transition to Advanced Social Work (1.00 cr.)

Synthesizes the foundation curriculum and facilitates continued development and application of critical consciousness in the students' advanced social work concentration. Emphasis is placed on a social justice framework in social work. Equivalent to SOCW-801.

SOCW-8003 Transition to Advanced Social Work (1.00 cr.)

Synthesizes the foundation curriculum and facilitates continued development and application of critical consciousness in the students' advanced social work concentration. Emphasis is placed on a social justice framework in social work. Equivalent to SOCW-801.

SOCW-8060 Advanced Topics in Social Work (1.00-3.00 cr.)

This advanced topics course is designed to cover various topics of interest to MSW students in the advanced curriculum and social work practitioners with the MSW degree. Topics covered will enhance knowledge and skills in very specific areas of social work practice, or will address issues and dilemmas faced by the social work practitioner in everyday practice. Equivalent to SOCW-860. Prerequisites: take SOCW-8100, SOCW-8200.

SOCW-8100 Contexts and Theories in Practice with Children and Families (3.00 cr.)

This course covers the structures, institutions, and ideas that shape and constrain the conditions of family and child life, and the impact of these contextual factors on particular children and families. Critical evaluation of the assumptions about families and children that underlie beliefs and actions and the assessment of the utility of theories currently at work in the field are emphasized. Equivalent to SOCW-805.

SOCW-8200 Social Work Practice with Families (3.00 cr.)

Provides advanced knowledge and skills for practice with families from all backgrounds, experiencing a wide range of problems, and analyzes interventions that are typically used. Emphasis is on strengthening ability to collaborate with families who may differ on dimensions of race, class, culture, and sexual orientation. Equivalent to SOCW-810.

SOCW-8210 Social Work Practice in Schools (3.00 cr.)

Uses the conceptual framework of ecological-systems theory to guide school social work practice. Examines the school as a social organization and the role of the social worker in such a setting. Interventions at multi-system levels for at-risk populations are discussed. Professional standards, ethics, and evaluation methods are delineated. Equivalent to SOCW-825.

SOCW-8220 Advanced Holistic Practice and Wellness (3.00 cr.)

This course provides an overview of holistic practice and integrative body-mind-spirit approach in social work. New approaches in science, the influence of culture, spirituality and social change movements within the field are explored. This course highlights social work's commitment to view clients from a bio-psycho-social-spiritual and political perspective. Emphasis is placed on the client-practitioner partnership relationship. This course also includes alternative social work/wellness practices that compare and contrast characteristics of different approaches, their principles and mechanisms, client outcomes and research base.

SOCW-8300 Social Work Practice with Children and Adolescents (3.00 cr.)

Provides advanced knowledge and skills for practice with children and adolescents, especially those regarded as "troubled" or "troubling." Interventions typically used such as art and play therapy, behavior management, educational groups, conflict management, and consultation will be demonstrated and critically assessed. Equivalent to SOCW-812.

SOCW-8400 Practice Evaluation (3.00 cr.)

Examines and analyzes the various approaches to the evaluation of social work practice at the micro and macro levels. Provides information about the techniques and procedures involved in the evaluation of this practice emphasizing process and outcome evaluation. Equivalent to SOCW-820.

SOCW-8500 Policy Practice with Children and Families (3.00 cr.)

Analyzes social welfare policies that impact on children and families focusing on the roles of the policy practitioner as a change agent. Equivalent to SOCW-837. Prerequisite: take SOCW-8003.

SOCW-8510 Policy for School Social Workers (3.00 cr.)

Provides the knowledge and skill base for understanding, analyzing, and influencing federal, State of Illinois, and local policy related to school social work. Equivalent to SOCW-838.

SOCW-8515 Holistic Policy Practice (3.00 cr.)

This course analyzes complex policy issues pertaining to public health in general and more specific to holistic health. This course provides understanding of the historical interest and ambivalence surrounding alternative health practices in American society and how this ambivalence continues to be reflected in current policies. Students will critically examine current and proposed policies they will encounter as practitioners. Issues of health care and disparities, as well as students own attitudes and beliefs will be analyzed.

SOCW-8520 Advanced Policy: Health and Mental Health (3.00 cr.)

Focuses on social policies at community, state, and federal levels that address issues related to health and mental health. Builds on the foundation content of the earlier policy and practice courses, integrating an understanding of social welfare policy with social work practice skills. Prepares students to intervene as administrators, as well as policy analysts and activists. Equivalent to SOCW-840.

SOCW-8600 Field Practicum III (3.00 cr.)

First part of a practicum sequence in the advanced curriculum. Provides direct practice experience in a field placement setting at the advanced curriculum level in the concentration and develops skills as critical practitioners in preparation for their professional roles in various work settings. Equivalent to SOCW-853. Corequisite course: SOCW-8601.

SOCW-8601 Field Practicum III: (2.00 cr.)

Assists students to become reflective practitioners. Applies social work knowledge and values in the demonstration of practice skills. Reinforces the value of lifelong growth and professional development. Equivalent to SOCW-854. Corequisite course: SOCW-8600.

SOCW-8700 Field Practicum IV (2.00-3.00 cr.)

The second in a two-part practicum experience in the advanced curriculum offering a continuation of practice experiences in the concentration. Emphasizes the critical integration of all course work and practice activities to further knowledge and to refine the use of skills and values. Equivalent to SOCW-855. Prerequisites: take SOCW-8600, SOCW-8601. Corequisite course: SOCW-8701.

SOCW-8701 Field Practicum IV: Integrative Seminar (2.00 cr.)

Emphasizes development of cultural competence and incorporation of critical self-reflection and positive valuing of clients in all aspects of practice. Focuses on the development of professional self and instilling value of continuous, lifelong professional development. Equivalent to SOCW-856. Prerequisites: take SOCW-8600, SOCW-8601. Corequisite course: SOCW-8700.

SOCW-8702 Field Practicum V (1.00 cr.)

The third of a three-part practicum experience in the advanced curriculum for students enrolled in the school social work concentration. Emphasis is on the role of the social worker during the termination process within a school setting at the end of the academic school year. Prerequisite: take SOCW-8701.

SOCW-8800 Independent Study (1.00-8.00 cr.)

Individual reading, research, and/or project in social work under supervision of faculty. Equivalent to SOCW-870.

Sociology

SOC-3100 Studies in American Society (3.00 cr.)

Broadly conceived, sociology is the systematic study of social behavior and group life. It takes as its point of departure the fact that (1) humans are essentially social beings, and (2) that human behavior is both the cause and effect of group life. Unraveling the implications of the essential socialness of human behavior-how the groups humans live in both shape their behavior and how humans shape group life-is the focus of this course. Equivalent to SOC-301.

SOC-3200 Social Inequalities (3.00 cr.)

Examines social stratification and inequality using an intersectional approach to understand how ethnicity, sexuality, race, gender, class, disability, and other dimensions of difference affect our life chances. Analyzes interlocking systems of privilege to explain how they maintain and reproduce inequality. Includes a field component.

SOC-3300 Principles of Urban Studies (3.00 cr.)

Offered as a correspondence course only. Presents an interdisciplinary study of basic principles and dynamics in the development of our increasingly urban world. Features focus on the worldwide process of urbanization, urban lifestyles, and some of the common elements in the cities in America and other areas of the world. Equivalent to SOC-310.

SOC-3400 Work and Family Life (3.00 cr.)

Examines historical and contemporary ideologies about the relation between work and family life. Explores effects of constraints of work roles on family life and of family life on work roles. Emphasizes issues associated with labor market segmentation, class variation, distinctions between dual and one-career families, and alternatives to traditional family/work patterns. Equivalent to SOC-585.

SOC-3500 Population Studies (3.00 cr.)

Provides background in understanding the study of social populations known as demography. Students will study key issues related to overpopulation, fertility policies, mortality rates, theories of food development, and illness patterns.

SOC-3600 Methods and Skills in Social Inquiry (3.00 cr.)

Practices empirical research methods in sociology through quantitative and qualitative data collection and analysis. Discusses the principal assumptions underlying methodological approaches, and students evaluate appropriate methods based upon research questions. Applies sociological theory and academic research in research design, execution, and data analysis.

SOC-4000 Topics in Sociology (3.00 cr.)

Conceives the ways in which corporations use public relations, advertising, marketing, and lobbying to influence governments, public policy at the physical and monetary expense of the people. Examines the tobacco, oil, pharmaceutical, agricultural, and other industries through conflict theory lenses to understand the ways in which corporate leaders influence politics and maintain their power. Equivalent to SOC-510.

SOC-4100 Self and Society (3.00 cr.)

Examines individual behavior as it occurs in social relationships by drawing upon sociology and psychology theories and concepts. Explores topics such as social construction of reality, socialization, identity construction and expression, group interactions, symbolic interaction, and impression management.

SOC-4200 Sociology of Sports (3.00 cr.)

This course provides students a background in understanding social issues related to sports from an anthropological and sociological perspective. Topics include sports and race, class, and gender; social policy and sport; athletes and the health care system; amateur sports and social structures.

SOC-4250 Community Organization (3.00 cr.)

Analyzes notions of power, community structure, community development, and their implications for community organization and renewal. Equivalent to SOC-525.

SOC-4300 Social Gerontology (3.00 cr.)

Provides students a background in social issues related to aging from an anthropological and sociological perspective. Topics range from sexuality to social policy and from health care to economics.

SOC-4400 Social Movements (3.00 cr.)

Examines the current debates in social movement theories through analysis of global and United States social movements. Considers various levels of movement organizing, including protests and mass demonstrations, community activism, and social movement industries. May include a field-work component, and offered in a lecture/online hybrid format.

SOC-4500 Sociology of Health and Healing (3.00 cr.)

Examines how social variation by category and group affect health-related beliefs and action, exposures to factors affecting relative health and illness, utilization of various forms of healthcare, contact with providers of contemporary professional medicine, the course of treatment, and differential outcomes. Differing theoretical perspectives are contrasted to seek a "best fit" analysis of public health. Equivalent to SOC-400. Prerequisites: take ANTH-3100, SOC-3100.

SOC-4540 Sociology of the Family (3.00 cr.)

Examines the historical roots of changes in contemporary family life. Focuses on class variation in American family life, implications of beliefs about sex roles for marital and parental roles, manifestations of pathology in family life, and connections among political issues and changes in family life. Equivalent to SOC-540.

SOC-4551 Sociology of Ethnic Relations (3.00 cr.)

Analyzes ethnicity as a dimension of social stratification and its implications for inter and intra-group conflict. Equivalent to SOC-551.

SOC-4700 Independent Study (1.00-4.00 cr.)

Individual reading, research, and/or project in sociology under the supervision of the faculty. Equivalent to SOC-470.

Spanish

SPAN-3250 Spanish Language and Culture I (3.00 cr.)

Introduces general Spanish language concepts using a communicative approach and develops students' speaking, listening, reading and writing skills so that they will be able to express their own ideas and interact with others significantly and for real-life purposes. Presents grammar and vocabulary as crucial tools for effective communication. And since cultural knowledge is an integral part of both language learning and successful communication, it also introduces students to the everyday lives of Spanish speakers in most countries of the Spanish-speaking world. Equivalent to SPAN-425.

SPAN-3251 Spanish Language and Culture II (3.00 cr.)

Introduces intermediate Spanish language concepts using a communicative approach to develop students' speaking, listening, reading and writing skills so that they will be able to express their own ideas and interact with others significantly and for real-life purposes. It presents grammar and vocabulary as crucial tools for effective communication. And since cultural knowledge is an integral part of both language learning and successful communication, it also introduces students to everyday lives of Spanish-speakers in terms of their traditions and costumes and their relevance in today's world. Equivalent to SPAN-426. Prerequisite: take SPAN-3250.

SPAN-4250 Spanish Language and Culture III (3.00 cr.)

Introduces upper intermediate Spanish language concepts using a communicative approach to develop students' speaking, listening, reading and writing skills so that they will be able to express their own ideas and interact with others significantly and for real-life purposes. It presents grammar and vocabulary as crucial tools for effective communication. And since cultural knowledge is an integral part of both language learning and successful communication, it also introduces students to the everyday lives of Spanish-speakers. Equivalent to SPAN-427. Prerequisite: take SPAN-3251.

SPAN-4251 Spanish Language and Culture IV (3.00 cr.)

Emphasis on semantical and syntactical elements required for understanding short literary selections by contemporary writers from different parts of the Spanish-speaking world. Focuses on reading comprehension strategies, oral and written communicative competence through in-class discussion, and compositions on customs and traditions of Hispanic culture. Equivalent to SPAN-428. Prerequisite: take SPAN-4250.

Special Education

See Education – Special Education

Statistics

STAT-2700 Statistics for Management I (3.00 cr.)

Covers the basic topics of applied statistics, including the sample mean and variance, random variables, elementary finite probability, the binomial and normal distributions; sampling, point and interval estimation, control charts, and hypothesis testing as they apply in business situations. Equivalent to STAT-361. Prerequisite: take MIS-2101.

STAT-3700 Statistics for Management II (3.00 cr.)

Includes analysis of variance, regression, correlation, time series, indexing, nonparametric statistics, bivariate distributions, and chi-square tests. Uses extensively statistical computer package in the analysis of data and application of statistical tests as they apply in business situations. Equivalent to STAT-362. Prerequisite: take STAT-2700.

STAT-4219 Statistical Methods (3.00 cr.)

A survey for graduate and undergraduate students with sufficient statistical background for professional programs in which basic familiarity with statistics is needed. The topics covered include descriptive statistics, probability, sampling, estimation, hypothesis testing, regression and correlation, analysis of variance, and chi-square. The course is fast-paced and intensive. Equivalent to STAT-520, STAT-5520. Prerequisite: take MATH-1423.

STAT-4720 Statistics (3.00 cr.)

Provides an introduction to statistics and covers such topics as the standard normal distribution, descriptive statistics, chi-square, t-test, correlational techniques, and one-way analysis of variance. Focuses on analysis of data most often collected by individuals in psychology, education, special education, and other social sciences. Equivalent to STAT-468.

STAT-6110 Data Analysis in the Social Sciences Using SPSS (3.00 cr.)

An introduction to accessing and analyzing quantitative data for students in the social and behavioral sciences. Equivalent to STAT-611.

STAT-6219 Statistical Methods (3.00 cr.)

A survey for graduate and undergraduate students with sufficient statistical background for professional programs in which basic familiarity with statistics is needed. The topics covered include descriptive statistics, probability, sampling, estimation, hypothesis testing, regression and correlation, analysis of variance, and chi-square. The course is fast-paced and intensive. Equivalent to STAT-5520, STAT-520. Prerequisite: take MATH-1423.

STAT-8260 Advanced Statistics in Behavioral Science (3.00 cr.)

Reviews briefly regression analysis and one-way analysis of variance. Focuses on multiple regression and other analyses of variance. Equivalent to STAT-860. Prerequisite: take STAT-4720.

STAT-8400 Statistical Process Quality Control (3.00 cr.)

Concentrates on process control relying heavily upon control charts as tools to improve quality and productivity. Equivalent to STAT-810.

STAT-8820 Experimental Design for the Natural Sciences (4.00 cr.)

For graduate students in Environmental Biology or Analytical Chemistry. Covers research designs from simple to factorial. Deals with relationships between statistics and experimental design. Includes practical experience in deriving unique experimental designs for specific research problems. To be taken before thesis/project work. Equivalent to STAT-820. Prerequisite: take STAT-6219.

Theatre and Performance Studies

TAPS-2100 Foundations of Theatre and Performance Studies (3.00 cr.)

Introduces the disciplines of Theatre and Performance Studies emphasizing storytelling in aesthetic, ritual, and everyday practices: examines historical, social, aesthetic, and technical aspects of performance while situating its relationship to and impact on culture.

TAPS-2200 Voice and Movement for Actors (3.00 cr.)

Introduces the basic principles underlying effective vocal and physical techniques in performance.

TAPS-2210 Introduction to Acting (3.00 cr.)

Introduces the basic principles, techniques, and concerns of acting for the stage.

TAPS-3210 Advanced Acting (3.00 cr.)

Intensive continuation of the development of acting basics. Prerequisite: take TAPS-2210.

TAPS-3220 Introduction to Directing (3.00 cr.)

Introduces the basic principles, techniques, and concerns of directing for the stage. Prerequisite: take TAPS-3210.

TAPS-3250 Performing Culture and Identity (3.00 cr.)

Engages performance theories and practices to investigate diverse perspectives of culture and identity.

TAPS-3252 Performance of Literature (3.00 cr.)

Engages literature through analysis and performance.

TAPS-4090 Topics in Theatre and Performance (3.00 cr.)

Explores selected issues in Theatre and Performance studies, addressing several aspects of the topic using a variety of methodologies, theories, and/or perspectives. Note: May be repeated for credit.

TAPS-4200 Writing as Performance (3.00 cr.)

Examines how the process of writing can be understood through and enhanced by the study of performance.

TAPS-4250 Performance and Social Change (3.00 cr.)

Examines performance as an inherent social practice, a method for enacting resistance, and a means of social, cultural, political, and personal transformation.

TAPS-4252 Solo Performance (3.00 cr.)

Explores the genre of solo performance through its history and practice.

TAPS-4260 Performance Art (3.00 cr.)

Explores the genre of performance art through its history, criticism, and practice.

TAPS-6090 Topics, Theatre and Perform (3.00 cr.)

Explores selected issues in Theatre and Performance studies, addressing several aspects of the topic using a variety of methodologies, theories, and/or perspectives. Note: May be repeated for credit.

TAPS-6200 Writing as Performance (3.00 cr.)

Examines how the process of writing can be understood through and enhanced by the study of performance.

TAPS-6250 Performance and Social Change (3.00 cr.)

Examines performance as an inherent social practice, a method for enacting resistance, and a means of social, cultural, political, and personal transformation.

TAPS-6252 Solo Performance (3.00 cr.)

Explores the genre of solo performance through its history and practice.

TAPS-6260 Performance Art (3.00 cr.)

Explores the genre of performance art through its history, criticism, and practice.