COURSE DESCRIPTIONS

The university uses a discipline-oriented course numbering system. Courses are identified by academic discipline (e.g., Accounting, Chemistry, Art, Biology). The following courses are arranged alphabetically by academic discipline 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.

300-499 Upper-division undergraduate courses;
500-599 Courses open generally to both undergraduate and graduate students; credit awarded based on student level, and credit requirements differ for undergraduate versus graduate students;
600-799 Graduate level courses, open to undergraduate students only by permission of the deans or division chairs of the colleges in which the courses are offered;
800-999 Courses open to graduate students only.

Application to Degree Requirements

Credits earned in courses with the ADPD prefix cannot be applied toward degree requirements of the M.H.S. in Addictions Studies.

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

Explanation of Course Descriptions

Variable Topics Courses.

These courses may be offered with different subjects and may be taken more than once. Consult the Schedule of Classes for the subject offered for that trimester. These courses are identified with the notation "..." after the title.

Credit Hours and Credit Options.

Credit hours are shown in parentheses following the course title. Where courses are offered for variable credit, the range of credit hours is shown. Credit hours followed by "P/NC" are graded only on a pass/no credit basis.

Mediated Courses.

Courses marked with this icon may be offered in a televised format; those marked with this icon may be offered as correspondence courses. Consult the schedule of classes to determine the format in which sections are offered during that trimester.

Description.

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

Course Prerequisites and Corequisites.

A prerequisite is a course or other requirement 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 must be taken simultaneous with another course. These requirements are identified in italics following the course description. It is the responsibility of the student to comply with any prerequisites and corequisites for a course that he/she plans to take. Students lacking specified prerequisites are not eligible to enroll in that course.
Accounting

ACCT301 Financial Accounting (3).
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.

ACCT302 Managerial Accounting (3).
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. Prerequisite: ACCT301.

ACCT331 Cost Accounting I (3).
Includes exposure to a broad range of cost accounting concepts and 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. Prerequisite: ACCT302 or equivalent.

ACCT332 Cost Accounting II (3).
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. Prerequisite: ACCT331.

ACCT351 Intermediate Accounting I (3).
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. Prerequisite: ACCT301.

ACCT352 Intermediate Accounting II (3).
Continuation of ACCT351. 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. Prerequisite: ACCT351.

ACCT353 Intermediate Accounting III (3).
Focuses on topics in financial accounting measurement, including reporting of income taxes, accounting changes and correction of errors, revenue measurement, leases, pensions, cash flow, financial statement analysis, interim financial reports, and reporting for segments of a business enterprise. Prerequisites: ACCT351 and ACCT352.

ACCT402 Management Accounting for Health Care Organizations (3).
Covers accounting concepts and their applications to health care organizations. Includes cost finding and cost analysis, ratio analysis, and elementary reimbursement theory. Designed for health administration students and other students with an interest in this area. Prerequisite: ACCT301 for undergraduate students. No prerequisites for graduate students.

ACCT410 Advanced Accounting (3).
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. Prerequisite: ACCT353.

ACCT421 Tax Accounting I (3).
The study of individual income taxation. Students obtain a broad appreciation of the tax structure and its role, both as a source of revenue and as a device to control the economy. Prerequisite: ACCT301.

ACCT422 Tax Accounting II (3).
The study of business taxation. Topics include the tax consequences of the formation, operation, consolidation, and termination of business organizations. Prerequisite: ACCT421 or permission of instructor.

ACCT423 Estate Planning (3).
Covers basics needed for developing and updating an estate plan, its creation, conservation, and disposition. Includes topics on identifying and harmonizing life goals and life styles, trusts, wills, and federal estate and gift tax law. Prerequisite: ACCT421 or equivalent.

ACCT430 Accounting and Computer Integration (3).
An exploration of the uses of computerized applications in the financial accounting area. The primary focus is on learning the capabilities of computer spreadsheet software and applying those capabilities to a wide variety of financial accounting situations. Other topics include demonstrations of a number of accounting and business databases, Internet services, commercial online services, and other computerized applications in accounting. Prerequisite: MIS301.

ACCT431 Accounting and Computer Integration Advanced (3).
An advanced exploration of the uses of computerized applications in the financial accounting area. The primary focus is on applying the capabilities of computer spreadsheet software and computerized financial accounting software to a wide variety of financial accounting situations. Other topics may include demonstrations of a number of accounting and business databases, utility software, accounting related shareware and new developments in personal computing for accountants. Prerequisites: ACCT430 and ACCT353.
ACCT440 Audit Concepts and Standards (3).
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.
Prerequisite: ACCT332 or permission of the instructor.

ACCT441 Advanced Auditing Concepts and Standards (3).
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. Prerequisite: ACCT440.

ACCT452 Accounting Information Systems (3).
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. Prerequisites: MIS301 and ACCT335 or equivalent.

ACCT456 International Accounting (3).
A comparison of the similarities and differences in accounting principles and procedures between the United States and other countries. An examination of accounting for multinational entities. Prerequisite: ACCT452.

ACCT470 Independent Study: . . . (3).
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. Prerequisite: Permission of instructor and dean.

ACCT480 Internship: . . . (3).
Designed to provide accounting students with supervised practical experiences in applied settings. Prerequisite: Permission.

ACCT801 Accounting for Administrative Control (3).
Offers an in-depth exposure to the management control process, including organizing and evaluating data for decision making under conditions of uncertainty. M.B.A. students with a cost accounting background must take ACCT815, ACCT831, or ACCT861, instead of ACCT801, to satisfy the M.B.A. accounting requirement. A student's requirement will be determined during advisement. Prerequisite: ACCT301.

ACCT812 Advanced Financial Accounting Topics (3).
The study of corporate combinations and the special application of measurement and principles related to consolidations, conglomerates, pooling of interests, and international operations. Prerequisites: ACCT333 or equivalent. Students who have taken ACCT410 or equivalent may not use this course towards graduation requirements.

ACCT813 Seminar in Financial Accounting Theory & Practice (3).
Contemporary financial accounting issues, including liabilities, pensions, tax allocation, leases, price level reporting, investments, and capital transactions. Prerequisite: ACCT333 or equivalent.

ACCT815 Financial Statement Analysis (3).
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 paying debt potential and predicting the entities' potential for generating cash and income in the future. Computer based; analytical tools will be used throughout the course. Prerequisite: ACCT335 or equivalent.

ACCT820 Seminar in Tax Accounting & Research (3).
In-depth research using state-of-the-art, on-line tax services, concerning recent developments and cases in the area of taxation. Prerequisite: ACCT421 or equivalent.

ACCT822 Federal Income Taxation of Partnerships and Corporations (3).
The study of federal income taxation of partnerships and corporations. Topics include formation, operation, consolidation, and termination of business organizations. Prerequisite: ACCT421 or equivalent. Students who have taken ACCT422 or equivalent may not use this course towards graduation requirements.

ACCT823 Taxation of Gifts, Trusts, and Estates (3).
Federal transfer taxes applied to gifts and transfers at death. Income taxation of trusts and estates. Prerequisite: ACCT422 or equivalent. Students who have taken ACCT423 or equivalent may not use this course towards graduation requirements.

ACCT831 Seminar in Managerial Accounting Theory and Applications (3).
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. Prerequisites: ACCT331, and ACCT452, or equivalent.
ACCT841 Advanced Auditing (3).
In-depth study of professional standards and regulatory agencies; audit planning; evidence gathering and evaluation. Prerequisite: ACCT440 or equivalent. Students who have taken ACCT410 or equivalent may not use this course towards graduation requirements.

ACCT842 Seminar in Auditing Standards and Applications (3).
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. Prerequisites: ACCT440 or equivalent.

ACCT843 Seminar in Internal and EDP Auditing (3).
An in-depth analysis of internal auditing problems and EDP auditing applications. Prerequisite: ACCT841.

ACCT851 Accounting Information Systems and Controls (3).
An in-depth analysis of concepts and principles of designing computer systems to perform accounting functions; applications of microcomputer accounting software packages. Prerequisite: ACCT452 or equivalent.

ACCT856 Seminar in International Accounting (3).
Financial accounting for international operations, multinational managerial accounting and control, comparative international accounting, international reporting issues, and international taxation. Prerequisites: ACCT352, and ACCT456, or equivalent.

ACCT861 Governmental and Nonprofit Accounting (3).
An overview of accounting and financial reporting for state and local governmental units and nonprofit organizations. Prerequisites: ACCT301 or equivalent.

ACCT865 Integrative Perspective on Accounting Issues (3).
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. Prerequisites: ACCT331, ACCT421, ACCT810, ACCT842, and ACCT851.

ACCT870 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

ACCT880 Internship: . . . (3).
Designed to provide accounting students with supervised practical experiences in applied settings. Prerequisite: Permission.

ACCT890 Graduate Thesis/Project: . . . (6) P/NC.
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 degree in business should select the thesis option. Prerequisites: Permission; last trimester of M.B.A. student's program of study.

Addictions Studies

ADDS340 A Study of Addiction (3).
Offered as a self-instructional correspondence course only. Provides an overview of the far-reaching problem of substance abuse in American society. Covers the causes, symptoms, manifestations, and treatment of substance abuse. Not open to alcoholism and drug abuse sciences majors.

ADDS500 Substance Abuse: Current Concepts (3).
Offered in both lecture and televised format. Examines physiological, psychological, and sociological aspects of drug abuse and includes historical and contemporary patterns. Examines past and present substance abuse treatment modalities and analyzes factors and institutions at the local, state, and national level that affect the delivery of substance abuse services. Includes legal and ethical issues in substance abuse.

ADDS501 Addictions Counseling: A Multicultural Perspective (3).
Offered in both lecture and televised format. Multicultural influences on addiction and its treatment will be examined. Students will develop competencies to work with clients from diverse cultural backgrounds.

ADDS505 Addictions: Recovery Process (3).
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.

ADDS510 Women and Addictions (3).
Addresses issues of gender as they relate to addictions treatment. Focus is placed on the clinical strategies that are most effective for women clients.
ADDS515 Alcoholism and Drug Abuse: Self-Help Groups (3).
Focuses on the twelve steps and the twelve traditions of Alcoholics Anonymous, as well as the knowledge and skills necessary to refer family, friends, and/or clients to the appropriate self-help group effectively. Other self-help groups will be reviewed.

ADDS518 Substance Abuse: A Systems Approach (3).
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.

ADDS519 Screening, Referral, and Treatment Planning (3).
Prepares students to provide brief interventions, make appropriate referrals, and develop comprehensive treatment plans for people with addiction-related problems. Examines screening processes in health, human service, criminal justice, and educational settings.

ADDS522 Clinical Skills in Substance Abuse (3).
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.

ADDS526 The Adolescent Substance Abuser (3).
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.

ADDS530 Addictions and Criminal Justice (3).
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.

ADDS532 Alcoholism/Employee Assistance Programs in Business and Industry (3).
Offered as a self-instructional correspondence course. Overviews substance abuse problems affecting business and industry. Examines how to plan and implement a program designed to intervene before such problems become severe. Topics covered include work behaviors of drug and alcohol abusers, confrontation strategies, program development, supervisory training, and assessment and referral procedures.

Reviews the functions of the human nervous system before exploring the basic principles of psychopharmacology. For each classification of psychoactive drugs, students examine the historical patterns of use and development, the physiological mechanisms of action, and the various effects resulting from drug use.

ADDS5625 Clinical Approaches to Substance Abuse: ... (1-3).
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. Prerequisite: ADDS522, ADDS519, or ADDS505 or equivalent.

ADDS5630 Families and Addictions (3).
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.

ADDS5720 Substance Abuse Prevention (3).

ADDS5815 Substance Abuse Counseling (3).
Examines issues related to counseling clients with substance abuse problems. Focus is placed on the student's ability to use state-of-the-art methods for assessment, treatment, planning, client motivation, and behavior change. Prerequisite: ADDS522, ADDS519, or ADDS505 or equivalent.

ADDS5821 Group Techniques (3).
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.

ADDS5825 Etiology and Epidemiology of Substance Abuse (3).
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.
ADDS835 Planning, Managing, and Evaluating Substance Abuse Programs (3).
Discusses the philosophy and historical development of alcoholism and drug abuse services. Reviews the processes involved in planning, managing, and evaluating programs. Topics include proposal writing and funding issues, needs assessment and community analysis, organizational development, leadership styles, decision making, personnel issues, and evaluation strategies.

ADDS845 Clinical Models of Addiction (3).
Examines evolving clinical theories and advanced clinical techniques used in substance abuse treatment. Cognitive, behavioral, psychodynamic, and pharmacological interventions as they pertain to substance abuse behavior change will be presented. Clinical interventions will be practiced. Prerequisite: ADDS815 or permission of instructor.

ADDS855 Seminar in Substance Abuse (3).
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. Prerequisite: ADDS825 or permission of instructor.

ADDS865 Internship Seminar (1).
Problems and issues encountered by students during their internships are discussed. Clinical cases are presented and treatment interventions are critiqued. Prerequisite: Candidacy status. Corequisite: ADDS880.

ADDS869 Comprehensive Examination (1) P/NC.
Final course in the Alcoholism and Drug Abuse Sciences 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. Prerequisite: Candidacy.

ADDS870 Independent Study: . . . (1-8).
Individual reading, research, and/or project in addictions under the supervision of faculty. Prerequisite: Permission.

ADDS880 Internship: . . . (1-3).
Designed to provide the Alcoholism and Drug Abuse Sciences major with supervised practical experiences in treatment, administration, research, prevention, or education in applied settings. Prerequisites: Candidacy and permission of instructor. Students seeking a clinical internship must complete ADDS845 before enrolling in the internship.

Addictions Studies—Professional Development
Credits earned in the following ADPD courses cannot be applied toward degree requirements of the M.H.S. in Alcoholism and Drug Abuse Sciences.

ADPD530 Current Topics in Alcoholism and Drug Abuse: . . . (1-2) P/NC.
Examines current and emerging topics, issues, or trends in the substance abuse field. May be repeated for credit with different topic.

ADPD560 Sobriety Planning (1) P/NC.
Focuses on development of a structured recovery program and teaching the patient recovery skills necessary in maintaining abstinence. Deals with responses and attitudes necessary for remission and the relationship between AA and the professional counselor. Prerequisite: ADDS340.

ADPD563 Impact of Alcoholism in the Work Place (1) P/NC.
Provides an overview of employee assistance programming and the many elements involved in this process. Emphasizes practical skills and applied knowledge as well as necessary supporting theory. Includes research, theories, and their application in concrete organizational situations. Prerequisite: ADDS340.

ADPD568 How to Talk to Children about Drinking (1) P/NC.
Provides an approach to communicating with children about drinking problems. Concentrates on four areas: dealing with children's anger, how a parent can resolve conflict, getting children to listen, and being a consultant to your child. The parent effectiveness theory of Dr. Thomas Gordon forms the basis for this course. Prerequisite: ADDS340.

ADPD570 Diagnosing Alcoholism: Practical Guidelines (1) P/NC.
Provides an understanding of diagnostic methods for differentiating physiological alcoholism in the early, middle, and chronic stages. Also, deals with nonphysiological alcoholism and diagnosis of alcoholism when accompanied by other diseases. Prerequisite: ADDS340.

ADPD572 Treating Alcoholism: Clinical Skills Training (1) P/NC.
Develops treatment skills for use with alcoholism clients in clinical settings. Prerequisite: ADDS340.

ADPD573 Relapse Prevention (1) P/NC.
Focuses on the conceptual knowledge and skills necessary for relapse prevention and intervention with substance abuse clients. Prerequisite: ADDS522.
ADPD574 Approaches to Family Recovery (1) P/NC.
Explores the contribution of family dynamics to the use and abuse of alcohol and other drugs. The importance and methods of family therapy are discussed in the context of substance abuse. Prerequisite: ADDS340.

ADPD576 Workshop: Teenage Substance Abuse (1) P/NC.
Focuses on understanding prevention and treatment of substance abuse in teenagers.

ADPD578 Educating the Alcoholism Patient (1) P/NC.
Identifies special learning needs of alcoholism patients and methods for meeting those needs. Analyzes what an alcoholism patient needs to know and why. Develops skills for designing and implementing patient education as a part of treatment. Prerequisite: ADDS340.

Anthropology

ANTH310 Trends in Cross-Cultural Analysis (3).
This course 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. Prerequisite: Introduction to Cultural Anthropology.

ANTH411 Urban Anthropology (3).
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.

ANTH470 Independent Study: ... (1-4).
Individual reading, research, and/or project in anthropology under the supervision of the faculty. Prerequisite: Permission.

ANTH500 Anthropology in Film (3).
Offered in both lecture and televised format. Introduction to world cultures, past and present, and to human nature through the use of classic ethnographic films. Focuses on the development of a cross-cultural understanding of central problems of human existence and how different peoples at different times solve them.

ANTH750 Cognitive Anthropology (3).
Examines the sociology of knowledge from a cross-cultural perspective, with emphasis upon social change and global environmental awareness.

ANTH870 Graduate Research: ... (1-4).
Individual reading, research, and/or project in anthropology under the supervision of the faculty. Prerequisite: Permission.

Art

ART300 Interrelational Studies: Art and Music (3).
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.

ART305 Drawing: ... (3).
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. Prerequisite: Permission.

ART310 Ceramics (3).
Covers basic concepts of clay handling, including hand-building, wheel methods, glaze formulation, and firing techniques. May be repeated with approval of instructor.

ART325 Advanced Problems in Design (3).
Examines advanced problems of two- and three-dimensional design. Studio assignments focus on problem solving within various art media. Prerequisite: Permission.

ART360 Art Seminar: Concepts and Methods (3).
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.

ART470 Independent Study: ... (1-4).
Individual reading, research, and/or project in art under the supervision of the faculty. Prerequisite: Permission.

ART490 Senior Project (3).
Culminating project for Art majors to be taken in the last semester of undergraduate study. Students select any one or combination of art disciplines: art history, ceramics, design, drawing, painting, photography, printmaking, or sculpture. Prerequisite: Permission.

ART500 Topics in Art: ... (1-3).
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. Prerequisite: Specific prerequisite(s) will vary depending on particular series.

ART501 Drawing: Life Study (3).
Develops the student's ability to render the human form representationally and abstractly. Students will work in charcoal, various chalks, pencils, and inks. Course may be repeated with approval of instructor. Prerequisite: ART305 or permission of instructor.
ART502 Drawing: Combined Media (3).
Offers the advanced student drawing opportunities with combined media. Encourages alternative and exploratory methods. Emphasis on drawing as an independent art discipline. May be repeated with approval of instructor. Prerequisite: ART305.

ART503 Stained Glass (2,3).
Explores the beauty of stained glass and light. Flat glass panels will be designed and constructed using both the leaded and copper foil methods. Emphasizes stained glass as a fine art medium. May be repeated with approval of instructor.

ART509 Electronic Drawing and Design (3).
Focuses on the creative potential of computer graphics in art and design. Students work with computers, experimenting with a variety of imaging techniques. Prerequisite: ART325.

ART514 American Art and Architecture: . . . (3).
A survey of early 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.

ART515 20th Century Art and Architecture (3).
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.

ART516 Great Artists: . . . (3).
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.

ART518 Women Artists (3).
A historical survey of Western female artists with special emphasis on American female 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.

ART520 Art in Context: . . . (3).
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.

ART521 Art of the South Pacific (3).
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.

ART523 Pre-Columbian Art: . . . (3).
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.

ART525 Art of Native Americans (American Indians) (3).
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.

ART527 African Art: . . . (3).
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.

ART530 Art of Asia: . . . (3).
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.

ART532 Sculpture: Multi-Level (3).
For students of varying levels of artistic development. Students explore a range of sculpture media and techniques. May be repeated with approval of instructor.

ART533 Sculpture: Fiber, Clay, and Metal (3).
Emphasizes techniques of combined materials in three or more sculpture media. May be repeated with approval of instructor. Prerequisite: ART305.

ART535 Sculpture: Metal I (3).
Explores the problems of metal sculpture, forming, and fabrication techniques. May be repeated with approval of instructor. Prerequisite: ART305.

ART536 Sculpture: Metal II (3).
Continuation of ART535. Focuses on problems of metal casting, fusion welding, soldering, and brazing. Prerequisite: ART535.

ART541 Sculpture: Wood (3).
Enables students to work in three-dimensional wood medium and study both traditional and new approaches. Outside readings, gallery visits, and reports are required. Prerequisite: ART305.

ART543 Ceramic Sculpture (3).
Explores sculptural forms using the clay medium. Examines various clay bodies and glazing techniques. May be repeated with approval of instructor.

ART544 Electronic Photographic Imaging (3).
Introduces the use of computer-assisted processes for the purposes of enhancing found or created still photographs through such devices as negation and addition of visual information, manipulation of color, and the ability to montage various visual information into a collective aesthetic statement. Prerequisite: Art major or permission.
ART545 Sculpture: Figure Modeling (3).
Emphasis on the human figure as a total form in both naturalism and abstraction. Techniques of clay building from armature to plaster or wax castings are explored. **Prerequisite:** ART305.

ART546 Advanced Electronic Software Imaging Workshop (1).
Advanced electronic media course using new technological capabilities for complex paint, collage, and animation projects. May be repeated with permission of instructor.

ART548 Advanced Electronic Imagery (3).
Advanced course in aesthetic problem-solving using electronic media. Requires prior knowledge of software and operating systems. **Prerequisites:** ART509 and ART544.

ART555 Painting Composition (3).
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. **Prerequisite:** ART325 or permission.

ART558 Painting and Drawing Composition (3).
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. **Prerequisite:** ART325 or permission.

ART561 Painting: Development of a Theme (3).
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. **Prerequisite:** ART325 or permission.

ART563 Painting: Multi-Level (3).
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. **Prerequisite:** ART325 or permission.

ART571 Printmaking: Lithography (3).
Explores lithography techniques of crayon and wash, etching and printing procedures. Emphasis is placed on individual imagery. May be repeated with approval of instructor. **Prerequisite:** ART305.

ART572 Printmaking: Waterbase Silkscreen (3).
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.

ART573 Printmaking: Woodcut (3).
Focuses on the development of original imagery in the process of woodcut. Emphasis placed on the planning, proofing, and reworking of the image as well as producing a consistent edition of prints. May be repeated with approval of instructor. **Prerequisite:** ART305.

ART574 Printmaking: Intaglio (3).
Examines techniques unique to intaglio printmaking, such as hard and soft ground etching, dry point, and aquatint. Emphasis is placed on original imagery through planning, proofing, and reworking to a consistent edition of prints. May be repeated with approval of instructor. **Prerequisite:** ART305.

ART581 Printmaking: Advanced Studio (2,3).
Offers an opportunity for advanced printmaking students to practice and improve printmaking techniques. Individual proposals required from each student will determine the nature of the work to be undertaken for the course. Course may be repeated with approval of instructor. **Prerequisites:** One course in printmaking or permission of instructor.

ART582 Printmaking: Combined Media (3).
Offers advanced printmaking students the opportunity to work simultaneously and collectively with various printmaking media. Alternative methods and experimentation are encouraged. May be repeated with approval of instructor. **Prerequisites:** Two courses in printmaking or permission of instructor.

ART585 Printmaking: Computer Applications (3).
This course allows advanced printmaking students to composite computer and hand-drawn imagery in silkscreen, 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. **Prerequisites:** ART509 or ART544 plus either ART571, ART572, or ART574.

ART609 Advanced Electronic Drawing and Design (3).
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. **Prerequisites:** ART325 and ART309 or ART544.

ART610 Sculpture: Advanced Studio (3).
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. **Prerequisites:** ART305 and either ART335, ART541, or ART543.
ART615 Art Since 1945 (3).
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.

ART644 Advanced Electronic Photo-Imaging (3).
Introduces advanced levels of electronic manipulation and assemblage of photographic images. Students work on a series of specific exercises designed to incorporate processes learned in ART544 and additional plug-in processes, filters, and methods to produce more sophisticated imagery. Prerequisite: ART544.

ART648 Problems in Electronic Imaging (3).
Advanced course in aesthetic problem-solving using electronic media. Requires prior knowledge of software and operating systems. Prerequisite: ART544 or ART509.

ART805 Art and Society (3).
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.

ART810 Studies in Art: . . . (3).
Offers graduate students the opportunity to do individualized research in a particular area of art history or art studio. Prerequisite: Permission.

ART820 Art Seminar: . . . (3).
Focuses on research approaches, theory, techniques, and materials related to special topics. Designed to prepare students for professional life and career in art. Prerequisite: Permission.

ART855 Graduate Painting Composition (3).
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. Prerequisites: ART305 and either ART555 or ART558.

ART860 Graduate Printmaking (2,3).
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. Prerequisite: Permission.

ART870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in art under the supervision of the faculty. Prerequisite: Permission.

ART890 Graduate Thesis/Project: . . . (1-3).
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. Prerequisite: Permission of advisor.

Bilingual-Bicultural Education—
See Education—Bilingual-Bicultural

Biology

BIOL305 Biological Science Foundations I (3).
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.

BIOL306 Biological Science Foundations II (3).
Covers plant structure and function and the process of photosynthesis. The operations of DNA and protein synthesis are examined. The concepts of Mendelian and non-Mendelian genetics are introduced as well as the fundamental principles of ecology and evolution. Designed for non-science majors.

BIOL307 Biological Science Foundations Laboratory (1).
Provides a series of laboratory and/or field activities appropriate to the topics covered in BIOL 305 and 306. Emphasizes both knowledge and skills in laboratory operations. Designed for non-science majors. Prerequisite: BIOL 305 or BIOL 306 or concurrent enrollment.

BIOL308 Human Evolution (3).
Offered as a correspondence course only. 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.

BIOL316 Plant Diversity Lecture (2).
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. Prerequisites: General biology or BIOL 305, and BIOL 306/307.

BIOL317 Plant Diversity Laboratory (1).
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. Corequisite: BIOL316.
BIOL320 Animal Diversity (2).
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. Prerequisites: General biology or BIOL305, and BIOL306/307. Corequisite: BIOL321.

BIOL321 Animal Diversity Laboratory (1).
Includes laboratory experiments and activities correlated with topics covered in BIOL320. 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. Prerequisites: General biology or BIOL305, and BIOL306/307. Corequisite: BIOL320.

BIOL322 Ecology (3).
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. Designed for science majors. Prerequisites: General biology or BIOL305, and BIOL306.

BIOL340 Genetics (3).
Emphasizes the principles of classical and molecular genetics by examining Mendelian and non-Mendelian inheritance, linkage, gene structure, expression, mutation and regulation, genetic engineering, and microbial and population genetics. Prerequisites: General biology and CHEM341/342.

BIOL360 Comparative Anatomy (3).
Introduces the anatomy of the chordates, treating the structure and functioning of the major vertebrate organ systems from a comparative and evolutionary perspective. Prerequisites: Zoology and BIOL320/321.

BIOL361 Comparative Anatomy Laboratory (1).
Examines in detail the structure of the vertebrate body. Emphasizes the dissection of a series of vertebrate types. Corequisite: BIOL360.

BIOL370 Cell Biology (1).
Emphasizes the ultrastructure, biochemical composition, metabolism, and proliferation of cells and considers research techniques used to study cell structure and function. Prerequisites: General biology and CHEM341/342.

BIOL371 Cell Biology Laboratory (2).
Covers laboratory experiments and demonstrations associated with BIOL370. Corequisite: BIOL370.

BIOL430 Microbiology (2).
Considers the functions 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. Prerequisites: General biology and chemistry. Corequisite: BIOL431.

BIOL431 Microbiology Laboratory (2).
Covers laboratory experiments associated with BIOL430. Corequisite: BIOL430.

BIOL444 Human Physiology I (2).
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. Prerequisites: General biology or anatomy and physiology, general chemistry, and CHEM322/323.

BIOL445 Human Physiology I Laboratory (1).
Covers laboratory experiments associated with BIOL444. Corequisite: BIOL444.

BIOL446 Human Physiology II (2).
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. Prerequisite: BIOL444.

BIOL447 Human Physiology II Laboratory (1).
Covers laboratory experiments associated with BIOL446. Corequisite: BIOL446.

BIOL450 Animal Physiology (3).
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. Prerequisites: BIOL370/371 and CHEM 341/342.

BIOL451 Animal Physiology Laboratory (1).
Covers laboratory experiments and demonstrations associated with BIOL450. Corequisite: BIOL450.

BIOL455 Behavioral Ecology (3).
Introduction to the biology of animal behavior with focus on its evolutionary and ecological bases. Provides concepts necessary for more advanced study in the area. Prerequisite: General biology or BIOL 365/366.

BIOL460 Plant Physiology (3).
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. Prerequisites: BIOL370, BIOL371, CHEM341/342, and concurrent enrollment in CHEM343/344 or permission.
BIOI461 Plant Physiology Laboratory (1).
Involves laboratory experiments and activities appropriate to the topics covered in BIOI460. 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. Corequisite: BIOI460.

BIOI470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in biology under the supervision of the faculty. Prerequisite: Permission.

BIOI480 Internship: . . . (1-4).
Designed to provide biology students with supervised practical experiences in applied settings. Prerequisite: Permission.

BIOI510 Biological Literature (3).
Acquaints students with major sources in biological information literature and provides guidance and practice in their efficient utilization. Includes uses of indices, abstracts, the online catalog, computer database searching, and other sources to identify specific information resources in biology. Studies how information is organized and stored for retrieval. Includes online computer search of biological abstracts. Prerequisites: General Biology and General Chemistry (two semesters each).

BIOI516 Human Genetics (3).
This science course for nonbiology majors considers the biological basis of human heredity, emphasizing mitosis and meiosis, Mendelian, sex-linked and quantitative inheritance, mutations, sex determination, inheritance disorders, genetic engineering, and genetic counseling.

BIOI522 Ornithology (1).
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. Prerequisites: Zoology, BIOI320, and BIOI521; or permission of instructor.

BIOI523 Ornithology Laboratory (2).
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. Prerequisites: Zoology, BIOI320, BIOI521, BIOI522; or permission of instructor.

BIOI555 Mammalogy (2).
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. Prerequisite: BIOI522.

BIOI556 Mammalogy Laboratory (1).
Provides laboratory experiences associated with BIOI555. Corequisite: BIOI555.

BIOI560 Plant Systematics (2).
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. Prerequisite: General biology.

BIOI561 Plant Systematics Laboratory (1).
A study of the flowering plants of the Chicago region with emphasis on identification, classification, and nomenclature. Corequisite: BIOI560.

BIOI570 Immunology (3).
Introduces the concepts and terminology of the immune response, including humoral and cellular immunity, immunogenetics, tumor and transplantation immunity, serology, immunopathology, developmental and comparative immunobiology. Prerequisites: Either BIOI450/451 or BIOI444-447.

BIOI600 Environmental Science: Terrestrial Biology (2).
Weekend field course taught at Camp Sagawau. Identification of plants and local communities is used to develop understanding of regional environments; teaching applications are made. Designed as in-service course for teachers.

BIOI601 Environmental Science: Biological Field Investigations (2).
Field course offered at Camp Sagawau. Uses field methods of investigation to compare habitats and study variations in plant communities and the effects of pollution. Designed as in-service course for teachers. Prerequisites: BIOI600.

BIOI603 Environmental Science: Forest Investigations (2).
Field course offered at Camp Sagawau. Participants examine local forest communities using several methods of analysis, including point-quarter transects, age classification by correlation with diameter class, variable and fixed plot sampling, and evaluating influences of microclimate. Designed as in-service course for teachers. Prerequisite: BIOI601.

BIOI604 Environmental Science: Investigations in Limnology (2).
An intensive week of field investigation based at Camp Sagawau comparing elements of real limnological systems including rivulets, creeks, marshes, ponds, and lakes of lentic and lotic environments. Emphasizes characteristic macro-invertebrates, vertebrates, chemical and physical properties of aquatic environment—whether natural or influenced by human activities. Designed as in-service course for teachers. Prerequisite: BIOI601.

BIOI610 Advanced Microbiology (1).
This course focuses on topics in recombinant DNA technology and pharmaceutical, agricultural, industrial, and environmental applications of biotechnology. Prerequisites: BIOI430, BIOI431, or equivalent.
BIOL611 Advanced Microbiology Laboratory (2).
The course consists of standard techniques used in recombinant DNA technology. Prerequisites: BIOL430, BIOL491, or equivalent.

BIOL630 Aquatic Systems (2).
An integrated treatment of aquatic ecology which focuses on the chemical, physical, and biological processes which structure aquatic environments. The characteristics of the aquatic environment will be discussed in lectures, and observed in field studies and laboratory measurements. Students will participate on scientific teams to characterize local and/or regional aquatic ecosystems. Prerequisites: BIOL322 and CHEM315/316 or equivalents.

BIOL631 Aquatic Systems Laboratory (2).
Provides field work and laboratory experiences appropriate to the topics covered in BIOL630. Corequisite: BIOL630.

BIOL641 Toxicology (3).
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. Prerequisites: Organic Chemistry and either BIOL450/451 or CHEM544/545.

BIOL650 Ecological Methods (2).
For graduate students of Environmental Biology. Covers basic field techniques, planning of field experiments, collection and analysis of data, and interpretation or results. Exercises include map and aerial photo interpretation, transect, grid and plotless sampling methods for abundance and/or density, identification of tracks and other field signs, use of radio-telemetry for home-range/territory analysis or movement patterns, temporal pattern analysis, and sonographic analysis of animal vocalizations. Prerequisites: BIOL322, BIOL455 and STAT520 or equivalent. STAT820 recommended.

BIOL651 Ecological Methods Laboratory (2).
Provides field work experiences associated with BIOL650. Corequisite: concurrent enrollment in BIOL650.

BIOL755 Field Studies: . . . (3).
In-depth participation in ongoing research on animal ecology being conducted by faculty. Covers the range of practical considerations in doing field research plus extensive focused field experience. Topic rotates year-to-year among faculty involved in animal studies. See listed professor for specific details. Prerequisites: BIOL322 and BIOL620/621.

BIOL810 Special Topics In: . . . (1-4).
Readings and discussions of selected, special topics in animal and/or plant ecology. Potential areas include evolution, population ecology, behavior, physiological ecology, or environmental/ethical issues. Prerequisite: Permission.

BIOL822 Population Ecology (3).
Studies the theoretical and applied aspects of animal population regulation. Readings cover population dynamics and interactions, regulations, age-structured populations, life history theory, and biocontrol. Population estimation techniques and analysis of mortality will be covered. Prerequisites: BIOL322 and BIOL455.

BIOL830 Plant Microenvironments (3).
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. Prerequisites: Organic Chemistry and General or Human Physiology.

BIOL831 Plant Microenvironments Laboratory (1).
Provides fieldwork experiences associated with BIOL830. Students will participate in a series of laboratory and/or field projects appropriate to the topics covered in BIOL830. Each laboratory project will center on the physiology or specific phase in the flowering plant life cycle. Corequisite: concurrent enrollment in BIOL830.

BIOL850 Environmental Physiology (3).
Emphasizes the comparative physiology of specialized adaptations, including osmoregulation, thermoregulation, endocrinology, locomotion mechanics, energy expenditure, and sensory, respiratory, circulatory, altitude, and diving physiology. Environmental toxicology concepts will be examined where appropriate among specific vertebrates and invertebrates. Prerequisites: Organic chemistry and BIOL450/451 or equivalent.

BIOL851 Environmental Physiology Laboratory (1).
Covers laboratory experiments and demonstrations associated with Environmental Physiology lecture, BIOL850. Corequisite: concurrent enrollment in BIOL850.

BIOL870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in biology under the supervision of the faculty. Prerequisite: Permission.

BIOL880 Internship: . . . (1-4).
Designed to provide biology students with supervised practical experiences in applied settings. Prerequisite: Permission.

BIOL890 Graduate Thesis/Project: . . . (1-6).
Provides the biology student the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in biology. Prerequisite: Permission of advisor.
BIOL899 Thesis Presentation in Biology (1).
Students provide oral and written accounts of their theses. The oral accounts will be seminars on their research projects in a format similar to the presentation of papers at professional meetings. The written account will follow thesis guidelines for graduate level work. Students should enroll during the final trimester of their research or the following trimester. Prerequisite: Permission of advisor.

Business Law

BLAW320 Legal Environment of Administration (3).
Focuses on public law and the organization. Examines the organization's relationship to employees, customers/clients, competitors, governmental bodies, and the public interest. Discusses administrative law policy and procedure in such substantive areas as labor law, consumer protection, antitrust, securities law, and environmental protection.

BLAW325 Business Law I (3).
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.

BLAW326 Business Law II (3).
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. Prerequisite: BLAW325.

Chemistry

CHEM306 Chemical Science Foundations I (3).
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. Prerequisite: MATH310.

CHEM307 Chemical Science Foundations Laboratory (1).
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. Prerequisite: CHEM306.

CHEM308 Chemical Science Foundations II (3).
Continuation of CHEM306. Covers chemical reactions, equilibrium, reaction rates, carbon chemistry, and introduction to the chemistry of living systems. Prerequisite: CHEM306.

CHEM315 Analytical Chemistry (3).
Covers fundamental methods of chemical analysis. Discusses acid-base, solubility, and redox equilib­rium, volumetric, gravimetric, potentiometric, and spectrophotometric analytical methods and separation techniques. Prerequisites: One year of freshman chemistry with laboratory, algebra. Corequisite: CHEM316.

CHEM316 Analytical Chemistry Laboratory (2).
Covers laboratory experiments associated with CHEM315. Classical laboratory techniques, including volumetric titrations, gravimetric analysis, potentiometry, spectrometric analysis, and chemical separations, are performed. Corequisite: CHEM315.

CHEM322 Introduction to Organic Chemistry (3).
One trimester survey course in organic chemistry designed for students in related fields. Organic functional groups are emphasized. Prerequisite: One year of general chemistry.

CHEM323 Introduction to Organic Chemistry Laboratory (1).
Covers laboratory experiments associated with CHEM322. Corequisite: CHEM322.

CHEM341 Organic Chemistry I: Lecture (3).
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, and stereochemistry of organic compounds and mechanisms of organic reactions are emphasized. Prerequisites: One year of general chemistry.

CHEM342 Organic Chemistry I: Laboratory (1).
Covers organic laboratory techniques (mostly microscale) including methods of separation, purification, and identification of organic compounds. Techniques include melting point determination, recrystallization, distillation, extraction, and chromatography. Also covers reactions and spectrophotometric (IR) properties or organic functional groups. Corequisite: CHEM341.

CHEM343 Organic Chemistry II: Lecture (3).
Continuation of CHEM341. Prerequisite: CHEM341.

CHEM344 Organic Chemistry II: Laboratory (1).
Covers organic laboratory techniques (mostly microscale) to perform reactions, synthesis, purification, and characterization of organic compounds. Includes spectrophotometric (IR, UV, and NMR) techniques. Corequisite: CHEM343.

CHEM366 Physical Chemistry I: Lecture (3).
Covers properties and theories of gases, mechanisms of atoms and molecules, molecular energies, and the laws of thermodynamics. Conducted in a lecture/problem-solving format. Prerequisites: Differential and integral calculus, two semesters of general chemistry, and one semester of analytical chemistry.
CHEM 367 Physical Chemistry I: Laboratory (1).
Laboratory experiments are performed covering molecular weight determinations using a high vacuum line, heats of solution using a solution calorimeter, heats of combustion using a bomb calorimeter, and elementary laboratory glass blowing. Prerequisite: CHEM 366 or concurrent enrollment.

CHEM 368 Physical Chemistry II: Lecture (3).
Continuation of CHEM 366. Theory includes chemical equilibria, phase equilibria, and multi-component systems, elementary kinetics, elementary electrochemistry, and elementary photochemistry conducted in a lecture, problem-solving format. Prerequisite: CHEM 366.

CHEM 369 Physical Chemistry II: Laboratory (1).
Laboratory experiments are performed covering the determination of an equilibrium constant using a UV-VIS spectrophotometer, colligative properties using a freezing point depression and a boiling elevation apparatus, and kinetics using a polarimeter. Prerequisite: CHEM 368 or concurrent enrollment.

CHEM 426 Instrumental Analysis (3).
Surveys basic instrumental analysis, including gas chromatography, liquid chromatography, atomic absorption spectroscopy, infrared and ultraviolet spectroscopy and nuclear magnetic resonance spectrometry. Prerequisites: One year each analytical chemistry and organic chemistry.

CHEM 427 Instrumental Analysis Laboratory (1).
Covers laboratory experiments associated with CHEM 426. Corequisite: CHEM 426.

CHEM 433 Advanced Inorganic Chemistry (3).
Focuses on the structure and bonding of inorganic compounds, extension of acid-base theory, coordination chemistry, and the descriptive chemistry of selected elements. A systematic approach based on the theoretical and empirical generalizations inherent in the periodic table. Prerequisite: CHEM 368.

CHEM 434 Advanced Inorganic Chemistry Laboratory (1).
An introduction to the experimental study of the synthesis, decomposition, and stability of a variety of inorganic compounds. Prerequisite: CHEM 433 or concurrent enrollment.

CHEM 450 Organic Synthesis and Structural Methods (2).
Covers organic laboratory techniques (mostly microscale) for organic structure determination by chemical and spectroscopic methods and synthesis of organic compounds. Includes spectrophotometric (IR, UV, and NMR) and inert atmosphere techniques. Prerequisite: One year of organic chemistry laboratory.

CHEM 455 Chemical Literature (1).
Acquaints students with major sources in chemical information literature and provides guidance and practice in their efficient utilization. Includes use of indices, abstracts, the card catalog, computer database searching, and other sources to identify specific information resources in chemistry. Studies how information is organized and stored for retrieval as well as specialized data compilations such as the Sadler Standard Spectra. Includes on-line computer search of chemical abstracts. Prerequisites: One year each of general chemistry and organic chemistry; open to chemistry majors only.

CHEM 470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in chemistry under the supervision of the faculty. Prerequisite: Permission.

CHEM 480 Internship: . . . (1-4).
Designed to provide chemistry students with supervised practical experiences in applied settings. Prerequisite: CHEM 344 and CHEM 427 or permission.

CHEM 505 Environmental Chemistry Lecture (3).
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. Prerequisites: CHEM 343/344 and CHEM 427 or permission.

CHEM 506 Environmental Chemistry Laboratory (1).
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. Prerequisite: CHEM 505 or concurrent enrollment.

CHEM 530 Physical Chemistry III (3).
An introduction to the quantum theory of atoms, molecules, and crystals, the quantum theory of valence, atomic and molecular spectroscopy, statistical mechanics and thermodynamics, and intermolecular forces. Prerequisite: CHEM 368.

CHEM 544 Biochemistry: Lecture (3).
An introduction to the fundamentals of biochemistry, including chemistry of living organisms, structures of biomolecules, and a survey of metabolism. Prerequisite: One semester of organic chemistry or permission. Students who also have a degree requirement for physiology are strongly urged to take the physiology course before biochemistry.

CHEM 545 Biochemistry: Laboratory (1).
Laboratory component of CHEM 544. Corequisite: CHEM 544.
CHEM550 Polymer Chemistry (3).
Introduction to polymer science covering basic concepts, basic structures, kinds of polymerization, copolymerization, stereochemistry, physical states and transitions, solubility, molecular weight, viscous flow, mechanical properties, structure-property relationships, degradation and stabilization, additives, analysis and identification, technology of plastics, fibers, elastomers, and coatings. Prerequisites: Organic and physical chemistry.

CHEM622 Chromatography (3).
Examines the theory of chromatographic separations with basic experimental work with thin-layer chromatography, gas-liquid chromatography, and high performance liquid chromatography. Prerequisites: Analytical and organic chemistry.

CHEM623 Chromatography Laboratory (1).
Covers laboratory experiments associated with CHEM622. Corequisite: CHEM622.

CHEM666 Spectrochemistry (4).
Covers modern optical methods of analysis from the microwave to the gamma ray region of the electromagnetic spectrum. Topics include spectroscopy associated with ultraviolet-visible, infrared, emission, flame, atomic absorption, atomic fluorescence, Raman, microwave, fluorescence, phosphorescence, refractometry, spectrophotometry, circular dichroism, turbidimetry, nephelometry, x-ray, nuclear magnetic resonance, electron spin resonance, gamma ray, and Mossbauer techniques. Prerequisites: Advanced chemistry and one year of organic chemistry.

CHEM667 Spectrochemistry Laboratory (2).
Covers laboratory experiments associated with CHEM666. Hands-on experience with the A.A., UV-VIS, IR, NMR, and fluorescence spectrometers are available through comprehensive laboratory experiments. Corequisite: CHEM666.

CHEM744 Analytical Biochemistry (2).
Presents basic procedures for cell fractionation and for isolation and characterization of biopolymers. Prerequisite: CHEM544.

CHEM745 Analytical Biochemistry Laboratory (1).
Covers laboratory experiments associated with CHEM744. Students isolate organelles and biopolymers and characterize them by techniques that include photomicrography, spectrophotometry, polycrylamide electrophoresis, fluorometry, nephelometry, and ultracentrifugation. Corequisite: CHEM744.

CHEM810 Special Topics: . . . (3).
Examines specialized topics in chemistry. Topics will vary. May be repeated for credit. Prerequisites: Vary depending on topic selected.

CHEM822 Gas Chromatography/Mass Spectrometry (2).
Examines the theory and practice of gas chromatography/mass spectrometry. Basic mass spectrometry will be discussed. Prerequisites: CHEM622/623. Corequisite: CHEM823.

CHEM823 Gas Chromatography/Mass Spectrometry Laboratory (1).
Covers laboratory experiments associated with CHEM822. Prerequisites: CHEM622/CHEM623. Corequisite: CHEM822.

CHEM855 Electrochemistry (3).
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. Prerequisite: CHEM686 and CHEM453.

CHEM856 Electrochemistry Laboratory (1).
Covers laboratory experiments associated with CHEM855. Corequisite: CHEM855.

CHEM870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in chemistry under the supervision of the faculty. Prerequisite: Permission.

CHEM880 Internship: . . . (1-4).
Designed to provide chemistry students with supervised practical experiences in applied settings. Prerequisite: Permission.

CHEM890 Graduate Thesis/Project: . . . (1-6).
Provides the chemistry student the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in chemistry. Students will either make a presentation in CHEM895 (project) or prepare a formal research seminar in CHEM899 (thesis). Prerequisite: Permission of advisor.

CHEM895 Chemistry Colloquium Series (1).
Provides students with the opportunity to observe presentations by scientists from academia, industry, and government. Provides students with the opportunity to develop presentation skills. A student completing a project in CHEM890 will present a seminar on the relevant literature. A student completing a thesis will present a formal research seminar. Prerequisite: CHEM890, Graduate Thesis/Project.
Communication Disorders

CDIS304 Phonetics (3).
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.

CDIS305 Introduction to Sign Language (2).
Designed to enable the student to acquire basic
conversational sign language skills. Discusses deaf
awareness and the different systems of signed
communication.

CDIS306 Intermediate Sign Language (2).
Designed to facilitate development of intermediate to
advanced-level conversational sign language skills.
Prerequisite: CDIS305 or permission of instructor.

CDIS310 Introduction to Communication
Disorders (3).
Study of the four major types of communication
disorders, their effects on the communicatively
impaired individual, and basic remediation programs.

CDIS322 Speech and Language Development (3).
Study of the normal development of speech and
language, the processes that affect this development,
and basic concepts of linguistics and psycholinguistics.

CDIS330 Speech and Hearing Science (3).
Study of sound generation and transmission,
measurement and analysis of sound, and
psychophysical methods. Topics include
psychoacoustics and speech production, acoustics,
and perception.

CDIS345 Speech Physiology (3).
Examines the anatomy, physiology, and neurology of
the process of respiration, resonance, phonation, and
articulation in speech and language production.
Prerequisite: CDIS310.

CDIS401 Articulation Disorders (3).
Focuses on the study of normal and disordered
articulation, including evaluation and management
procedures for persons with articulation disorders.
Prerequisites: CDIS304, CDIS310, and CDIS322.

CDIS410 Introduction to Audiology (3).
Covers the concepts, equipment, materials, and
procedures involved in basic and advanced assess-
ment of auditory function. Topics include anatomy,
physiology, and pathology of the auditory system,
pure-tone and speech audiometry, acoustic immittance
measurements, site-of-lesion testing, assess-
ment of the pediatric population, and identification
audiometry. Prerequisite: CDIS330.

CDIS435 Introduction to Childhood Language
Disorders (3).
Introductory examination of the etiology,
symptomatology, assessment, and remediation
of language disorders in children and adolescents.
Prerequisites: CDIS310 and CDIS322.

CDIS440 American Dialects: Issues and
Educational Implications (3).
Covers the major sociolinguistic concepts and applies
them to the analysis of dialectal differences and the
cultures from which they were derived.

CDIS450 Clinical Methods in Communication
Disorders (3).
Examines principles and procedures of assessing and
treating disorders of human communication disor-
ders. Prerequisites: CDIS304, CDIS310, CDIS322,
and CDIS345.

CDIS470 Independent Study: . . . (1-8).
Individual reading, research, and/or project in
communication disorders under the supervision of
the faculty. Prerequisite: Permission.

CDIS480 Internship: . . . (1-8).
Designed to provide the communication disorders
student with supervised practical experiences in
applied settings. Prerequisite: Permission.

CDIS510 Speech and Language Characteristics
of Exceptional Students (3).
Study of normal and disordered speech and language
development with special emphasis on aspects
relevant to classroom teachers and special educators.

CDIS800 Current Trends in Public School
Speech-Language Pathology (3).
Focuses on recent developments in diagnostic and
therapeutic procedures as well as on professional
issues such as Public Law 94-142. Designed for
school speech pathologists. Prerequisite: Bachelor's or
master's degree in speech pathology.

CDIS801 Recent Developments in Childhood
Language Disorders (3).
Emphasizes current clinical practice in language
disorders and related conditions. Review of recent
literature and presentations will cover diagnostic and
therapeutic procedures. Designed for speech-
language pathologists. Prerequisite: Bachelor's or
master's degree in speech pathology.

CDIS802 Scientific and Professional Foundations
of Communication Disorders (3).
Develops bases for locating, analyzing, evaluating,
producing, and communicating scholarly work in
communication disorders, with special emphasis on
the connection between research and clinical
practice. Explores the bases of professional behavior
and issues, with critical reference to the ASHA Code
of Ethics. Prerequisite: Completion of an undergradu-
ate degree in CDIS or its equivalent.

CDIS805 Current Topics: . . . (3).
Explores current clinical and scientific issues in
communication disorders. Designed for practicing
speech-language pathologists and audiologists and
focuses on significant topics in speech, language, and
hearing. Topics will vary; may be repeated for credit.
Prerequisites: Vary depending on topic.
CDIS810 Voice Disorders (3).
Reviews anatomy and physiology of phonation.
Examines etiology, diagnostic features, and treatment approaches for common functional and organic voice disorders. Provides an introduction to laryngectomy rehabilitation. Prerequisites: CDIS310, CDIS330, and CDIS345.

CDIS813 Language Disorders of Children (3).
Covers topics of most recent professional interest in childhood language disorders. Topics include the relationship of language disorders to other clinical entities, recently investigated approaches to assessment and remediation, and application of linguistic, psycholinguistic, and cognitive models to assessment and remediation. Prerequisites: CDIS310, CDIS322, and CDIS435.

CDIS818 Behavior Principles in Communication Disorders (3).
Applies behavior principles to the evaluation and remediation of speech and language disorders. Presents methods of analyzing and recording communicative behavior. Emphasizes techniques of writing behavioral objectives and individual education plans for therapeutic intervention. Prerequisite: CDIS435.

CDIS820 Fluency Disorders (3).
Examines the various theories of stuttering and their corresponding therapies. Attention to current stuttering research, development, and implementation of a stuttering therapy program. Prerequisite: CDIS310.

CDIS825 Aphasia (3).
Examines the historical, neuro-anatomical, etiological, and linguistic aspects of aphasia. Analyzes diagnostic and remediation procedures. Prerequisites: CDIS310, CDIS322, and CDIS345.

CDIS830 Motor Speech Disorders (3)
Investigates the differential diagnosis and common treatment approaches of motor speech disorders, including cerebral palsy and apraxia of speech, from a neurophysiological perspective. Prerequisites: CDIS345, CDIS401, CDIS515, CDIS810, and CDIS831.

CDIS838 Dysphagia (3).
Examines the normal swallowing mechanism and clinical evaluation of swallowing disorders in adults and children, with special emphasis on various etiologies and signs of aspiration. Management techniques for a wide variety of treatment problems are presented. Ethical issues are raised for discussion. Prerequisites: CDIS345, CDIS810, CDIS831, and CDIS833.

CDIS840 Communication Disorders in Craniofacial Anomalies (3).
Investigates the diagnostic and consultative aspects of communication disorders associated with cleft lip and palate, congenital palatopharyngeal insufficiency, and syndromes of the head and neck. Examines anatomy, physiology, and embryology of the craniofacial structures. Prerequisites: CDIS310, CDIS322, CDIS345, and CDIS401.

CDIS845 Aural Rehabilitation (3).
Examines theoretical aspects of normal and abnormal speech perception. Deals with hearing aid selection, counseling the hearing impaired client, material development, and program development for aural rehabilitation. Prerequisite: Completion of the undergraduate sequence in Communication Disorders.

CDIS850 Practicum in Audiology: Assessment (1).
External practicum in audiometric assessment. May include screening, basic pure-tone and speech audiometry, and acoustic immittance testing. Prerequisites: CDIS410, one graduate practicum, and permission.

CDIS852 Practicum in Audiology: Rehabilitation (1).
External practicum in rehabilitative audiology with hearing-impaired elementary school or high school students or hearing-impaired retarded young adults. Includes diagnosis, lesson planning, therapy, and report writing. Prerequisite: CDIS845 and permission.

CDIS854 Practicum in Speech-Language Pathology: Public School (5).
Requires 100 clinical hours of speech-language pathology practicum in a public school setting. Included are group and individual therapy, screening, and diagnostics. Prerequisites: CDIS401, CDIS430, CDIS813, CDIS818, and permission.

CDIS856 Practicum in Speech-Language Pathology: Mental Health Center (3).
Provides experience in individual and group therapy, diagnostics, consultations, training of paraprofessionals, and interdisciplinary staffing in a mental health setting. Prerequisites: CDIS825, CDIS854, and permission.

CDIS858 Practicum in Speech-Language Pathology: Hospital (3).
Provides experience in individual and group therapy, diagnostics, consultations, and interdisciplinary staffing in a medical setting. Prerequisites: CDIS810, CDIS831, CDIS833, CDIS838, CDIS856, and permission.

CDIS870 Independent Study: . . . (1-8).
Students arrange individual reading, research, and/or project in communication disorders under the supervision of the faculty. Prerequisite: Permission.

CDIS880 Internship: . . . (1-8).
Designed to provide the communication disorders student with supervised practical experience in applied settings. Prerequisite: Permission.
CDIS890 Graduate Thesis/Project: . . . (3).
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. Prerequisite: Permission of advisor.

Communication Studies

COMS300 Introduction to Communications (1).
Designed to serve as an introduction to undergraduate work in the communications fields. Should be taken in the first trimester of undergraduate work in communications.

COMS310 Concepts of Human Communication (3).
Offered in both lecture format and as a correspondence course. Examines the communication process on the basic levels and contexts of communication. Examines verbal, nonverbal, and intercultural communication behaviors; analyzes the vital electronic and mass communication processes in light of their significant broad ramifications.

COMS330 Interpersonal Skills (3).
Focuses on face-to-face interaction and intergroup relations combining knowledge about human communication with practice in interpersonal skills.

COMS339 Oral Communication Improvement (3).
Designed to enhance voice quality, articulation, and fluency in oral communication. Covers structure and function of the speech mechanism. Emphasis on improvement of voice, articulation, and fluency in public and interpersonal communication settings.

COMS420 Communication Research (3).
Explores basic concepts, terms, and procedures of communication research. Surveys research methods and instruments, their strengths, weaknesses, and applications. Students prepare and implement a research proposal.

COMS435 Persuasive Speaking (3).
Examines major theories of persuasion, especially as related to oral communication. Applies these theories to interpersonal, social, political, and organizational change. Students develop and present persuasive messages and study persuasive campaigns.

COMS450 Communication Dynamics in Organizations and Communities (3).
Examines communication networks and power structure of a real community. Studies assumptions needed to understand the relationship between public and interpersonal messages in the community.

COMS470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in speech-communication studies under the supervision of the faculty. Prerequisite: Permission.

COMS480 Internship: . . . (1-4).
Designed to provide the speech-communication studies student with supervised, practical experiences in applied settings. Prerequisite: Permission.

COMS500 Introduction to Graduate Communications and Training (1).
Designed to serve as an introduction to graduate work in the communications and human performance and training fields. Should be taken in the first trimester of graduate work in Communications and Training.

COMS505 Communication Workshop: . . . (1-3).
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 in workshop participants practical knowledge and skills of communication that are crucial to a given social/professional context.

COMS531 Listening (3).
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.

COMS532 Nonverbal Communication (3).
Students examine nonverbal elements of human communication, consider body movement, space behavior, time orientation and management, and aesthetic and environmental factors. Students analyze nonverbal aspects of work, study, sports, leisure, or other interpersonal settings in terms of their function, value, and meaning.

COMS533 Group Communication (3).
Examines principles of group interaction in the decision-making process, with emphasis on the dynamic effects of leadership style, risk taking, and feedback techniques. Involves theory and practice with groups.

COMS535 Debate and Public Advocacy (3).
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. Prerequisite: COMS435, a public speaking course or permission of instructor.

COMS538 Conflict Management (3).
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. Integrates theory and technique from behavioral sciences with insights about the work force.
COMS540 Intercultural Communication (3).
Surveys communication transactions between members of differing cultures and studies of 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 universal modes of communication and identifies factors that impede effective intercultural understanding.

COMS541 Culture and Communication Process (3).
Relates culture and verbal/nonverbal communication behaviors. Examines differences in customs, philosophy and religion, social institutions, language structure, values, and attitudes. Explores the future of intercultural communication.

COMS542 Gender Communication (3).
Designed to apply concepts of human communication to male/female interactions. The focus is on theoretical understanding and analysis of cultural differences, conflict management, listening, stereotypes, verbal and nonverbal differences. Students will be encouraged to develop experiential knowledge and practical skills in gender communication.

COMS550 Public Relations and Communication (3).
Study of public relations, its media, and messages. Students utilize case studies of public relations strategies in at least two organizations and design a campaign to improve the public image of an organization. Prerequisite: MCOM551.

COMS552 Communicating with Clients/Customers (3).
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.

COMS561 Technology and Human Communication (3).
Examines communication and computer technology in terms of their influence on society and the day-to-day living of citizens of technological societies. Studies the impact of communication and computers in such areas as business, industry, education, and the home and considers future trends.

COMS565 Advertising as Communication (3).
Examines the nature and process of communication as it relates to advertising.

COMS567 Advertising Strategy (3).
Draws from behavioral sciences concepts to explain consumer behavior and decision process models. Uses application research techniques to examine psychological, sociological, and cultural aspects of the consumer as related to advertising strategy.

COMS611 Philosophy of Human Communication (3).
Examines how and why we communicate from the perspectives of objective and subjective philosophies. Studies various theories of communication and their philosophical foundations. Prerequisite: COMS310 or equivalent background.

COMS635 Interpersonal Communication (3).
Focuses on the importance of sensitivity to various communications. Examines feedback, empathy, levels of interdependence, perception, inference, observation, selectivity processes, and rumor transmission.

COMS645 International Communications (3).
This course 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.

COMS650 Organizational Communication, Change, and Development (3).
Analysis of the human elements in the functioning of an organization. Students will develop a plan to act as a change agent, apply organizational development techniques for instituting the change, and evaluate the results of the efforts.

COMS651 Managing Communication Systems (3).
Students identify nine features, nine postulates, and four network diagrams of a functioning organization; apply at least one theoretical approach to improving the management of communication within an organization of their choice; and submit the suggestion for adoption by the members. Consists of simulations and seminar reports by students.

COMS805 Seminar in Communication Studies: . . . (1-3).
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. Prerequisite: COMS810 or permission.

COMS810 Communication Theory (3).
Examines the concept of theory, investigates major theories of communication, and takes a critical approach to the evaluation of communication theories. Prerequisite: COMS310.
COMS815 Survey of Research Literature (3).
This course enables students to gain familiarity with the scope of research literature in the communication studies, media communication, and human performance and technology fields; develop an understanding of common research literature; and write an article.

COMS825 Graduate Communication Research (3).
Examines advanced 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, bivariate/multivariate analysis, time series analysis, sociometric analysis, and report writing.

COMS860 Communication Training (3).
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.

COMS861 Problems in Applied Communication (3).
This course provides an opportunity for students to utilize case study methods in synthesizing and applying communication theories and concepts in hypothetical and real-life situations in the professional environment. This course will provide opportunities for students to investigate, analyze, and propose solutions for actual problems in the professional setting. Prerequisite: Should be taken in the last half of the student's academic program.

COMS870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in communication studies under the supervision of the faculty. Prerequisite: Permission.

COMS880 Internship: . . . (1-4).
Designed to provide the communication studies student with supervised practical experiences in applied settings. Prerequisite: Permission.

COMS890 Graduate Thesis/Project: . . . (1-6).
Provides the communication studies student the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in interpersonal communication. Prerequisite: Permission of advisor.

Computer Science

CPSC305 Introduction to Computer Technology (3).
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. Introduces students to the BASIC language. Prerequisite: Satisfactory completion of the university basic mathematics proficiency examination.

CPSC320 Computer Programming: BASIC (3).
An introduction to computer programming in BASIC that includes writing numerous programs. Students will analyze problems, develop algorithms to solve these problems, and write well-documented BASIC programs corresponding to these algorithms using BASIC input/output operations, numeric and string constants and variables, control statements, arrays, functions and subroutine, and data files. Requires a substantial commitment of time for the completion of programming assignments. Prerequisite: MATH310, MATH320, or MATH325.

CPSC330 Computer Programming: FORTRAN (3).
A first course in the use of the FORTRAN language. Technical and business applications will be studied. Students will write programs and solve them on both batch processing and time-shared computer systems. Requires a substantial commitment of time for the completion of programming assignments. Prerequisite: MATH325.

CPSC340 Computer Programming: Pascal (3).
Study of the Pascal programming language. Top-down structured programming technique will be taught. Topics include control statements, data types, control structures, arrays and strings, records and sets, nested structures and recursions. Requires a substantial commitment of time for the completion of programming assignments. Prerequisites: MATH325 and one prior computer language or permission.

CPSC345 Computer Programming: C++ (3).
The purpose of this course is to introduce the C++ programming language including its syntax, control structures, functions, data structures, and the use of pointers. Students will use the Turbo C/C++ compiler to write, run, and debug programs on IBM PC compatible computers. Emphasis will be placed on clarity and correctness of the resulting programs. Requires a substantial commitment of time for the completion of programming assignments. Prerequisites: CPSC340 and college algebra or equivalent.
CPSC351 Computer Programming: COBOL (3).
Prepares the fundamentals of computer programming and the ANSI COBOL computer language. These fundamentals will be applied to various business and/or statistical situations. The course will also cover discussion of input/output devices, software considerations, and basic forms design. Requires a substantial commitment of time for the completion of programming assignments. Prerequisite: MIS301 or CPSC320.

CPSC360 Computer Programming: Basic Assembly Language (3).
Introduces IBM 370 mainframe assembly program language, the data representation inside the machine, the coding techniques, and debugging method. The environment used to run the assigned homework is IBM 386 mainframe via network. Requires a substantial commitment of time for the completion of programming assignments. Prerequisite: At least one high level programming language.

CPSC365 Computer Programming: PC Assembler (3).
Introduces the 8088 microprocessor, information representation inside machine, 8088 assembly language (DEBUG, ASM, and MASM), the PC/DOS, and the use of some BIOS 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. Prerequisite: At least one high level programming language.

CPSC370 Software Engineering: Design and Analysis (3).
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. Prerequisite: Any course in computer science or data processing.

CPSC405 Computer Organization (3).
Provides students with an understanding of the computer organization with examples of micro-, mini-, and mainframe architectures. Covers basic computer hardware components, micro-level operations and instructions, addressing techniques, macros, file I/O operations, program segmentation and linkage, and assembler construction with one-pass and two-pass assemblers. Prerequisites: Pascal programming language, CPSC360 or CPSC365, and MATH340.

CPSC415 Data Structures (3).
Advanced data structures with continuing emphasis on writing well-designed, structured programs. Major topics include arrays, stacks and queues, linked lists, trees, graphs, internal and external sorting, symbol tables, and files. Prerequisites: Pascal and one other high-level language.

CPSC420 Software Engineering: Project (3).
Develops an engineering approach to the software life cycle of planning, development, and maintenance. Covers system definition, software scoping and estimation requirements analysis, modularity, information hiding, cohesion and coupling, software complexity, data flow and structure, design methodology, software testing, and maintenance methodology. Students will participate in a software engineering project to provide an applied focus for study. Prerequisites: CPSC370, CPSC415 and either CPSC435 or CPSC445 or permission of instructor.

CPSC425 External File Processing (3).
Introduction to the concepts and techniques of processing data on bulk storage devices and the application of data structures and file processing techniques. Prerequisite: CPSC415 or concurrent enrollment.

CPSC435 Operating Systems (3).
Covers the major concept areas of operating system principles, the interrelationships between the operating system and the architecture of computer systems. Major topics are dynamic procedure activation, system structure, evaluation, memory management, process management, and recovery procedures. Prerequisite: CPSC405.

CPSC441 Introduction to Data Communications (3).

CPSC442 Introduction to Computer Networks (3).
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. Prerequisite: CPSC435.

CPSC444 Computer Programming: Advanced Pascal (3).
This course covers advanced techniques for the creation of large application programs using Pascal. Emphasis will be placed on the design of the user interface. Topics will include operating system interrupts, in-line assembly language, and other techniques for the development of complex applications. Selected Pascal programming utilities also will be covered. Prerequisites: CPSC340 and CPSC415.
CPSC445 Database Systems (3).
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 and data independence, data access method, physical schema, conceptual schema, external schema, third normal forms, Boyce-Codd normal forms, rational model, network model, hierarchical model, entity-relationship model, database management systems, query languages, and application program development in a DBMS environment such as dBASE III PLUS, RIM, or other equivalent DBMS. Prerequisite: CPSC415.

CPSC450 Introduction to Algorithms (3).
Development and analysis of algorithms for problem solving in computer science. Emphasizes issues of complexity of algorithms, efficiency, and reliability. Includes as topics sorting, searching, approximation methods, and heuristics. Prerequisite: CPSC415.

CPSC452 Advanced COBOL and CICS for Business Applications (3).
Covers application program design, development, and implementation using common level CICS and advanced features of COBOL on IBM 4341. Emphasizes on-line CICS applications from a user's point of view. Students will create and run programs with the Virtual Machine/System Product. Prerequisite: CPSC351.

CPSC455 Organization of Programming Languages (3).
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. Prerequisites: CPSC405, CPSC415, and MATH355.

CPSC458 Database Programming (3).
Covers advanced programming in a database environment using block structured languages, database query language interfaces, and program development languages. Prerequisite: CPSC445.

CPSC462 Numerical Algorithms (3).
Includes topics on 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, numerical differentiation and integration, and linear and nonlinear least squares. Introduction to subroutine packages. Students should allow ample time in their schedules for working with a computer outside of class. Prerequisites: MATH355 and either CPSC320, CPSC330, or CPSC340.

CPSC470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in computer science under the supervision of the faculty. Prerequisite: Permission.

CPSC480 Internship: . . . (1-4).
Designed to provide computer science students with supervised experiences in applied settings. Prerequisite: Permission.

CPSC505 Programming in LOGO (3).
Provides experience with the use of the graphical (TURTLEGRAPHICS), character string, and numerical capabilities of the LOGO computer programming language. Emphasizes educational applications. Requires computer programming and substantial use of a computer outside the classroom. Prerequisite: Intermediate algebra or MATH320.

CPSC535 Introduction to the UNIX System (3).
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. Prerequisite: CPSC435.

CPSC560 Computer Graphics (3).
A survey of hardware and software used for interactive computer graphics, with applications to various areas such as business graphics, art, and CAD systems. Topics include graphics hardware and packages for both mainframes and microcomputers, two- and three-dimensional graphics, windowing, clipping, transformations, hidden line removal, surface modeling, solid modeling, and graphics standardization (GKS, CORE, etc.). Students should be prepared to spend considerable time outside of class at a computer or terminal on homework assignments and the final project. Prerequisites: CPSC415 and MATH355.

CPSC605 AutoCAD (3) P/NC.
Designed for the working professional in the field. Introduces the fundamental concepts of computer graphics, computer aided design, CAD hardware and software, and basic AutoCAD commands. AutoCAD concepts covered include entity drawing commands, edit and inquiry commands, utility and drawing aids, layers, dimensioning, crosshatching, three-dimensional wireframing, slide shows, and customized menu. Special features of AutoCAD and AutoLisp are also covered. Cannot be taken for credit in addition to CPSC460. Prerequisite: Familiarity with PC-DOS.

CPSC610 Computing for Scientists (3).
This course will provide 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.
CPSC630 Computer Architecture (3).
Introduces the organization and structuring of major hardware components of computers, the mechanics of information transfer and control within a digital computer system and the fundamentals of logic design. Includes topics on basic logic design, coding, number representation and arithmetic, and computer architecture. Prerequisite: CPSC405.

CPSC643 Computer Programming: Advanced C/C++ (3).
This course covers advanced techniques for the creation of application programs using the C and C++ languages. Reviews common data structures as implemented in C/C++ and emphasizes the common techniques used in the design of modern application programs. Topics will include study of the run-time library functions, system calls, graphics, text displays, and selected programming utilities. Prerequisites: CPSC345 and CPSC415.

CPSC646 Programming the Windows API (3).
This course covers the fundamentals of programming for the Microsoft Windows environment using an object-oriented approach and either Borland Pascal or Borland C++. Lecture topics will progress from a simple, minimum Windows program through the addition of numerous features common to most Windows applications. Programming assignments will require students to explore the implementation of the options available for a number of these features. In addition, students will work on the development of a complete Windows application program. Prerequisites: CPSC345, CPSC415, CPSC435 are required. In addition, CPSC643 is recommended.

CPSC656 Object-Oriented Programming (3).
Introduces the basic concepts of object-oriented languages, including objects, classes, class attributes, methods, instantiation, parameterized classes, inheritance, multiple-inheritance, class hierarchy, typing, subtyping, garbage collection, and implementation issues. Includes an introduction to one or more languages. Prerequisites: CPSC415, CPSC420, and CPSC455.

CPSC660 Artificial Intelligence (3).
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. Prerequisites: CPSC415 and MATH355.

CPSC700 Software Development Tools (3).
Introduces the practical software tools used for the development of commercial software. Topics include the use of software tools for screen design, windows, graphics, file systems, sorting, memory management, and device drivers. In addition both hardware and software debugging aids will be discussed and demonstrated. Prerequisites: CPSC345 and CPSC420.

CPSC710 Fourth-Generation Languages and Beyond (3).
Introduces the concepts of nonprocedural, application generation languages. Topics include fundamentals and classifications of fourth-generation languages, use of dialogues, action diagrams, program structure, natural language and graphic interfaces, decision support languages, prototyping, and sample systems such as FOCUS, IDEAL, MANTIS, RAMIS II, QBE, and SQL. Prerequisites: CPSC420 and CPSC445.

CPSC730 Comparative Computer Architecture (3).
Examines the architecture of an entire computer system. Topics include computer system design issues such as processor-memory-switch organization, arithmetic and non-arithmetic processing, control addressing, input/output, comparisons of specific examples of various solutions to computer system design problems, and novel computer organizations. Prerequisites: CPSC435 and CPSC630.

CPSC735 Advanced Operating Systems (3).
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. Prerequisite: CPSC435.

CPSC745 Database Development and Environments (3).
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. Prerequisite: CPSC445.

CPSC760 Computational Linear Algebra (3).
Examines direct and iterative computer solutions of linear systems and eigenvalue problems, with applications to linear programming, polynomial interpolation, Chebyshev minimax curve-fitting, iterative linear solution of nonlinear systems, nonlinear least-squares, and linear boundary value problems for differential equations. Compares standard numerical, interval, and symbolic manipulative methods. Standard numerical commercial software is used. Interval and symbolic programs are written by the student. Prerequisite: MATH440.
CPSC770 Numerical Analysis (3).
Examines computer interpolation of numerical data, splines, root-finding methods, nonlinear optimization, interpolatory differentiation and integration, Rolle's differentiation arithmetic and the solution of ordinary nonlinear differential equations, nonlinear dynamical systems, and partial differential equations. Uses a combination of standard numerical, interval, symbolic, and graphical techniques. Standard numerical commercial software is used. Interval and symbolic programs are written by the student. Prerequisites: CPSC760 or MATH365 or MATH455.

Examines three-dimensional computer graphics. Topics include algorithms for curves and surfaces, geometrical and image transformations, stereopsis, solid modeling, removal of hidden lines and surfaces, and surface modeling; design of interactive software and a simple graphics editor; programming of the mouse, light pen, digitizer, and plotter. Prerequisite: CPSC460.

CPSC779 Computer Aided Design (3).
Introduces CAD as an application of computer graphics that replaces drafting tables with a computer. Topics include design of CAD systems, basic features of CAD systems, architectural design using CAD systems, mathematical foundation of CAD systems. Students will study several CAD environments such as AutoCAD, Versa-CAD, MicroCAD, and will develop various types of design drawings using AutoCAD. Prerequisite: CPSC460.

CPSC780 Scientific Computation (3).
Examines symbolic manipulation (“Computer Algebra”), interval methods, fuzzy sets, programming parallel processors, scientific computer graphics, and optimization and pattern recognition using simulated neural networks. Applies a combination of numerical, symbolic, and graphical techniques to the solution of nonlinear dynamical systems, including chaotic solutions with fractal geometries. Interval and symbolic programs are written by the student. Prerequisites: MATH440 and either MATH365 or MATH455 or CPSC760.

CPSC790 Special Topics: ... (3).
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. Prerequisites: Will vary depending on topic.

CPSC810 Mathematical Structures and Concepts for Computer Science (3).
Presents highlights of the mathematical foundations of computer science. Topics include various logics useful in computer science, compatibility, Turing machines, grammars and automata, computational complexity, unsolvability, and partial verification of programs. Symbolic and procedural computer programs are written by the student outside of class. Prerequisites: CPSC415 and MATH340.

CPSC812 Design of Compilers (3).
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. Prerequisites: CPSC455 and CPSC810.

CPSC815 Natural Language Processing (3).
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 are discussed. Prerequisites: CPSC420 and CPSC660.

CPSC820 Planning and Management of Software Projects (3).
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. Prerequisites: CPSC370 and CPSC420.

CPSC825 Expert Systems and Knowledge Engineering (3).
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. Prerequisites: CPSC370, CPSC420, and CPSC660.

CPSC830 Microcomputer Architecture (3).
Microprogramming concepts are demonstrated on a typical microcomputer architecture. Topics include machine organization and operations such as register transfers, transformation, sequencing, memory organizations, and methods of implementing control functions in microinstructions. Technologies that make microprogramming viable and applications influenced by microcomputer architectures, such as implementations of high level languages, assembly language, and operation systems will be examined. Prerequisites: CPSC435 and CPSC630.
CPSC835 Operating System Programming (3).
Specialized system programming techniques will be discussed, and topics focusing on operating system design including system requirements, reliability, security, process communication, parallel processing, and system structure will be implemented. Students will gain first hand experience in programming on the operating system level. Prerequisite: CPSC735.

CPSC840 Data Structures and Algorithms (3).
Presents techniques for the analysis of the time and space requirements of computer algorithms, problems of representing complex data structures in a computer, and implementation of algorithms using various data structures. Topics include sorting, searching, trees, graph problems, NP-complete problems, and approximation methods. Prerequisite: CPSC415.

CPSC845 Advanced Database Theory (3).
Provides students with an in-depth study of the sensitive issues on the theory of relational database design such as design methodology, concurrency control, data integrity, security, query optimization, and transaction processing. Prerequisites: CPSC445 and MATH340.

CPSC860 Advanced Artificial Intelligence (3).
Defines the characteristics of intelligence and discusses their implications to the development of intelligent machines. Pertinent concepts derived from brain research, psychobiology, cybernetics, systems research, and other disciplines will be discussed in relation to the subject matter. Prerequisite: CPSC660.

CPSC870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in computer science under the supervision of the faculty. Prerequisite: Permission.

CPSC880 Internship: . . . (3).
Designed to provide graduate computer science majors with supervised experiences in applied settings. Prerequisite: Permission.

CPSC890 Graduate Thesis/Project: . . . (1-6).
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. Prerequisite: Permission.

CPSC899 Thesis Presentation in Computer Science (1).
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 trimester of their research or the following trimester. Prerequisite: Permission of advisor.

Counseling

COUN470 Independent Study: . . . (1-6).
Individual reading, research, and/or project in counseling under the supervision of the faculty. Prerequisites: Permission of instructor and division chairperson.

COUN470P Independent Study: . . . (1-6) P/NC.
Individual reading, research, and/or project in counseling under the supervision of the faculty. Prerequisites: Permission of instructor and division chairperson.

COUN510 Physical and Sexual Abuse of Children (3).
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 and treatment.

COUN515 Death and Dying (3).
Examines current attitudes toward death and dying. Explores ways in which the professional helps the patient and family deal with a terminal illness.

COUN518 Workshop on Depression (2).
Study of the causes and cures of depression from the humanities/holistic view of human nature. Specific attention to transactional analysis, the redicision model.

COUN544 Introduction to Family Dynamics (3).
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. Prerequisites: PSYC430; and PSYC544 or PSYC555.

COUN548 Alternate Approaches to Traditional Psychotherapy (3).
Introduces students to alternate therapeutic strategies such as body therapy, communication therapy, Gestalt therapy, neurolinguistic programming, and psychodrama.

COUN609 Issues in Counseling (1-3).
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.

COUN630 Counseling Theories and Ethics (3).
Introduces students to the major theories in counseling and associated techniques, to ethical codes and standards, and to related legal issues and trends. Summaries of applicable research are covered.

COUN633 Community Counseling and Professional Orientation (3).
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. Prerequisite: Admission to M.A. in Counseling.
COUN636 Human Service Systems (3).
Examines organizational and administrative processes in human service systems. Considers various short- and long-range programs and their positive and negative effects.

COUN638 Introduction to School Services (3).
Examines the roles of school service personnel in the school environment. History, philosophy, trends, purposes, ethics, legal aspects, standards, and roles within the institution are examined. Students will explore the significance of classroom dynamics. Prerequisite: COUN630 or concurrent enrollment.

COUN725 Family Systems: Theory and Practice (3).
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.

COUN730 Life Style and Career Development (3).
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. Prerequisite: Graduate student status.

COUN803 Information Services in Guidance (3).
Provides background for professionals (teachers, counselors, others) to organize vocational information, employment trends, and personal information for effective use by students and adults.

COUN810 Beginning Counseling and Human Relations Skills (3).
Provides students with experience in human relations laboratory, focusing on basic communication skills and the development of beginning counseling skills. Prerequisite: COUN630.

COUN811 Community College Counseling (3).
Techniques and strategies of counseling in community colleges, area vocational centers, and professional schools. Students are expected to spend considerable time in an off-campus setting.

COUN826 Research Literature in Counseling and Psychotherapy (3).
Provides counselors and psychotherapists with methods and criteria to locate and evaluate research literature on counseling and psychotherapy. Emphasizes evaluation and understanding of research questions and findings. Prerequisites: PSYC544, PSYC560, or COUN630.

COUN837 Management of Counseling Programs (3).
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.

COUN838 Counseling Employees in the Workplace (3).
Introduction to the concept of employee assistance programs. Deals with design, implementation, and evaluation of counseling programs in business and industry.

COUN840 Advanced Techniques: ... (3).
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. Prerequisite: COUN844 or COUN845 or permission.

COUN842 Practicum in Vocational Counseling (3).
Examines theories of career choice and decision-making process and methods of assisting clients in career development. Students will also administer and evaluate appropriate instruments and develop vocational counseling skills. Prerequisites: PSYC610, COUN730, and degree candidacy.

COUN844 Practicum in Individual Counseling: Child and Adolescent (3).
Focuses on the development and refinement of counseling skills required for working with children and adolescents. Emphasizes data gathering through observation, analysis of the counseling process, and the development of counseling and consultative strategies. Students will maintain ongoing counseling relationship with one child and one adolescent client. Prerequisites: COUN810 and degree candidacy.

COUN845 Practicum in Individual Counseling: Adult (3).
Application of theory and practice in individual counseling and therapy with adults. Prerequisites: COUN810 and degree candidacy.

COUN846 Reality Therapy (3).
Apply techniques and skills of reality therapy in counseling sessions with adults. Study concepts and orientations of Glasser, Harrington, and Haley toward mental health, including work with families. Prerequisite: COUN810 or COUN844.

COUN847 Group Dynamics and Intervention (3).
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.
COUN848 Practicum in College Counseling: Structure and Functions (3).
The first course of the college counseling practicum sequence focuses on the structure and function of the community college and its service to the community. Prerequisites: Degree candidacy, permission of instructor, and successful reaplication.

COUN850 Group Therapy in Transactional Analysis (3) P/NC.
Study of and participation in the TA group therapy model created by Eric Berne. The student will be at times both the therapist and the client. The major focus will be here/now script work, awareness, and redocument by contracts. Prerequisite: PSYC412 or SEM101 by ITAA.

COUN851 Consultation and School Staff Development (3).
Examines theories, functions, and skills required of consultants in schools and other settings. Students will use consultation skills with client. Prerequisite: COUN630.

COUN852 Practicum in Group Counseling: Child and Adolescent (3).
Students will develop, analyze, and evaluate one ongoing counseling group for children and one ongoing counseling group for adolescents, and one psychoeducational group for both. Prerequisites: COUN844 or COUN845, and degree candidacy.

COUN853 Parent Education: Prevention and Intervention (3).
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. Prerequisite: COUN639.

COUN854 Advanced Individual Therapy Techniques: Child (3).
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. Prerequisite: COUN844.

COUN855 Assessment and Treatment Planning (3).
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). Prerequisite: COUN845 or permission.

COUN856 Practicum in Group Counseling: Adult (3).
Study and practice of basic interviewing skills and treatment techniques in group counseling or group therapy with adolescents and adults. Prerequisites: Completion or concurrent enrollment in COUN845, and degree candidacy.

COUN857 Behavior Therapy (3).
Advanced study and application of behavioral therapy techniques with adults and children. Prerequisite: COUN844 or COUN845.

COUN858 Development of School Counseling Programs (3).
Study of rationale and program for guidance services. Special attention to analyzing, evaluating, and integrating administrative theory. Prerequisite: PSYC610 and degree candidacy.

COUN859 Family Counseling Techniques (3).
Study and practice of concepts and techniques of family counseling. Students demonstrate system's techniques with actual clients. Prerequisites: COUN725, COUN845, and degree candidacy.

COUN860 Marriage and Couple Counseling (3).
Deals with approaches to counseling that focus on couple interactions rather than individual pathology. Students demonstrate basic techniques of couple therapy with actual clients. Prerequisites: COUN845 and COUN846.

COUN861 Parent Study Group Leadership (3).
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. Prerequisites: COUN639 and COUN853.

COUN862 Life Style Analysis (3).

COUN863 Practicum in College Counseling: Clinical (3).
Application of counseling, consulting, assessment, and guidance skills in a college setting. Requires minimum of fifteen school days at sites arranged for by the university. Prerequisite: COUN848.

COUN865 Practicum in Elementary School Counseling (6) P/NC.
Application of counseling, consulting, assessment, and guidance skills in an elementary school setting. Requires minimum of fifteen school days. Prerequisites: Students must have achieved counseling competencies acceptable to the screening committee for practicum sites (see "Division of Psychology and Counseling Student Handbook" for details). All other course work must be completed, with grades as specified for the degree program; or all work in skill building courses completed with grades as specified for the degree program, and sufficient progress made in remaining courses to clearly demonstrate to the practicum screening committee that completion is near.
COUN866 Practicum in Leadership in Transactional Analysis (1,2) P/NC.
A laboratory in transactional analysis. Students use knowledge of TA to act as group leaders. Prerequisites: Laboratory in TA, or passing TA101 taught by a certified member of the I.T.A.A., and permission of the instructor.

COUN867 Practicum in Secondary School Counseling (6) P/NC.
Application of counseling, consulting, assessment, and guidance skills in a secondary school setting. Requires minimum of fifteen school days at sites arranged by the university. Prerequisites: Students must have achieved counseling competencies acceptable to the screening committee for practicum sites (see "Division of Psychology and Counseling Student Handbook" for details). All other coursework must be completed, with grades as specified for the degree program or all work in skill building courses completed with grades as specified for the degree program and sufficient progress made in remaining courses to demonstrate clearly to the practicum screening committee that completion is near.

COUN868 Counseling Internship I: . . . (3) P/NC.
Student is placed in an agency or school setting (600 hour minimum) and expected to perform all activities expected of a regular staff counselor, including a minimum of 240 hours of direct service. Prerequisites: COUN842; and either COUN844 and COUN852 or COUN845 and COUN856; and six hours of required courses. Should be taken immediately before or concurrent with COUN869.

COUN868P Counseling Psychology Practicum I: Agency Systems (3) P/NC.
Practice eight hours per week in an approved agency site. Development of critical analysis of the agency as a human service delivery system. Prerequisites: Candidacy, permission of instructor, and successful preaplication.

COUN869 Counseling Internship II: . . . (3) P/NC.
Continuation of COUN868. Prerequisite: COUN868 or concurrent enrollment with permission of advisor and faculty.

COUN 869P Counseling Psychology Practicum II: Clinical Skills (3) P/NC.
Continuation of COUN868P. Practice eight hours per week in an approved agency site. Completion of final master's project integrating academic and clinical skills. Prerequisite: COUN868P.

COUN870 Independent Study: . . . (1-6).
Individual reading, research, and/or project in counseling under supervision of faculty. Prerequisites: Permission of instructor and division chairperson.

COUN870P Independent Study: . . . (1-6) P/NC.
Individual reading, research, and/or project in counseling under supervision of faculty. Prerequisites: Permission of instructor and division chairperson.

Criminal Justice

CJUS310 Criminal Justice Organization and Process (3).
Studies current structures and procedures of American criminal justice. Presents various comprehensive theories useful for analysis and understanding of the justice subsystems.

CJUS320 Correctional Process (3).
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 between prisons and other subsystems such as mental hospitals.

CJUS330 Juvenile Justice (3).
Explores the development of the juvenile court and the system of juvenile justice in the U.S. Studies contemporary issues in juvenile justice and approaches to prevention, control, and treatment of delinquency.

CJUS345 Crime Causation Theories and Social Control (3).
Examines historical and current criminology theory and practice. Analyzes concepts and practices of crime and criminal behavior and society's response to them. Examines the law, offenders, victims, forms of crime, and the criminal justice system. Students will consider various aspects of criminology theory and formulate their own perspective that takes into account societal pressures and research about crime, rehabilitation, and recidivism.

CJUS355 Law Enforcement and the Community (3).
Topics and issues in the law enforcement process, police administration, police-community relations in the context of the multiethnic and multiracial urban communities.

CJUS360 Criminal Law and Procedure (3).
Examines the criminal procedure and prosecution of cases in the criminal courts for misdemeanor and felony charges. Analyzes issues related to criminal prosecution, the role of the functionaries, and the sentencing process.

CJUS420 Correctional Policy and Practice (3).
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. Prerequisite: CJUS320 or permission.
CJUS450 Women and Minorities in Criminal Justice (3).
Role of women and minorities in the criminal justice system as employees and clients. Examines the nature and extent of crime and processing of women and minority offenders by the law enforcement courts and correctional systems. Prerequisites: CJUS310 and CJUS345.

CJUS451 Current Topics in Criminal Investigation (3).
Examines the techniques and methodology of police investigations. Explores the use of current, hands-on, and practical law enforcement strategies to solve crimes. Prerequisite: CJUS355 or permission.

CJUS453 Computer Applications for Criminal Justice (3).
A review of the available resources and selected computer software applications for criminal justice professionals such as Spatial and Temporal Analysis of Crime (STAC), SHOWCASE, and other microcomputer software packages as they become available. Prerequisite: CJUS310 and CPSC305 or permission.

CJUS455 Critical Issues in Private Security & Justice (3).
Examines the field of private security, its growth and development in the context of criminal justice. Analyzes issues related to the philosophy, operation, individual privacy, organizational and community factors from a human rights perspective. Prerequisite: CJUS310 or permission.

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. Prerequisite: CJUS360.

CJUS465 Non-Western Criminal Justice Systems (3).
Examines the criminal justice systems of selected non-Western cultures from a comparative perspective. A survey of the organizational, administrative, and philosophical principles of criminal justice systems from the non-Western world. Prerequisite: CJUS310 or permission.

CJUS470 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

CJUS480 Internship: . . . (3).
Designed to combine individual career counseling and work outside of the classroom in combination with institutional learning settings. Prerequisites: Permission of advisor and cooperative education coordinator.

CJUS510 Topics in Criminal Justice: . . . (1-3).
In-depth analysis of contemporary justice related issues and topics. Prerequisite: CJUS310 or permission.

CJUS520 Substance Abuse in the Criminal Justice System (3).
This course is designed to introduce the student to the issue of substance abuse treatment within the context of the criminal justice system. The differing goals of the criminal justice system and the treatment system will be discussed. The course will discuss at what stages of the criminal justice opportunities for substance abuse intervention exist and for which groups of offenders. The importance of continuity of care and linkages to needed services for such clients will be emphasized. Finally, the significance of relapse and recovery and other special issues which relate to the criminal justice client will be addressed. Prerequisite: Permission of instructor.

CJUS525 Violence Interruption Process (3).
Examines the emerging use of the "violence interruption process" in the criminal justice system. This will include assessment, treatment planning, provision of services, and evaluation of outcomes within rehabilitative and preventive models. Prerequisite: Permission of instructor.

CJUS555 Justice System Planning and Crime Prevention (3).
Explores the planning process and introduces students to the examination of critical issues in criminal justice planning. Prerequisite: CJUS310 or permission.

CJUS560 Justice System Research, Design, and Change (3).
Development of a research study in a public service agency. Includes conceptualization, research methodologies, and skills to design and implement a social change strategy. Prerequisite: Statistics or SOSC450.
**Economics**

**ECON301 Principles of Microeconomics (3).**
Studies price formation, demand, and production decisions. Examines the individual and interrelated behavior of consumers, firms, and industries.

**ECON302 Principles of Macroeconomics (3).**
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.

**ECON310 Consumer Economics (3).**
Study of the changing role of consumers, the consumption of goods and services, and the alternatives open to the consumer in the economic environment. Prerequisites: ECON301 and ECON302.

**ECON325 Comparative Economic Theory (3).**
Comparative analysis of contemporary economic theories, their evolution, and current impact. Prerequisites: ECON301 and ECON302.

**ECON350 Money and Banking (3).**
Studies the U.S. monetary system in the areas of money, institutions, and policy. Concentrates on the analysis of money and its functions, the mechanics of the commercial banking system and its determination of the money supply, 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. Prerequisites: ECON301 and ECON302.

**ECON410 Intermediate Macroeconomics (3).**
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. Prerequisites: ECON301 and ECON302.

**ECON420 Managerial Economics: The Economics of the Firm (3).**
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. Prerequisites: ECON301, ECON302, MATH355, and STAT362.

**ECON430 International Trade and Finance (3).**
Examines theory of international trade and factor movements, international monetary relations, balance of payments, foreign exchange markets, and the development of alternative international money systems. Also covers theory of tariffs and current issues in U.S. trade policy. Prerequisites: ECON301 and ECON302.

**ECON435 Comparative Economic Systems (3).**
Study of differences between popular political labels and sets of factors that actually distinguish working economic systems. Prerequisites: ECON301 and ECON302.

**ECON470 Independent Study: . . . (3).**
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. Prerequisites: Permission of instructor and dean.

**ECON480 Internship: . . . (3).**
Designed to provide economics students with supervised practical experiences in applied settings. Prerequisite: Permission.

**ECON501 Foundations of Economics (3).**
Study of the concepts of macro- and microeconomics at an advanced level. Satisfies the economics prerequisites for the M.B.A. This course does not apply as a graduate level course toward the M.B.A. degree. Prerequisites: MATH325 and graduate student status.

**ECON533 Economic Development in Latin America (3).**
Study of the economic struggles of the Latin American peoples through an analysis of the role the economy has played in the past and is now playing in the modernization process, in the political process, and in the culture of Latin America.

**ECON650 Consumer Economics for Teachers (3).**
Covers basic principles of economics and explores methods of teaching those principles of economics to students in kindergarten through sixth grades. Features speakers and field trips.

**ECON701 Teaching Current Economic Issues (3).**
Focuses on current macroeconomic 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.

**ECON702 Strategies for Teaching Economics in the Elementary Classroom (3).**
Covers basic principles of economics and explores methods of teaching those principles of economics to students in kindergarten through sixth grades. Utilizes exemplary national curriculum projects that are designed to teach economics to elementary school children.
ECON703 Strategies for Entrepreneurship Education (3).
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.

ECON704 Current Global Economic Problems (3).
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.

ECON705 The Role of Labor in a Changing Economy (3).
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.

ECON706 Public Finance and Taxation for Teachers (3).
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.

ECON707 Teaching about Money, Banking, and Monetary Policy (3).
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.

ECON801 Problems in Managerial Economics (3).
Applies microeconomics theories to the problem of most efficient use of resources within and between the organization and the economic system. Utilizes macroeconomics theories to forecast the future economic environment. Studies compromising techniques to reach an optimum of objectives when maximization remains elusive. Prerequisites: ECON301, ECON302, MATH355, and STAT362.

ECON810 Labor Economics (3).
Study of the development and structure of the labor movement, wage determination, and public policy toward labor. Prerequisites: ECON301 and ECON302.

ECON815 Economic Development (3).
Deals with economic development as a progressive division of labor. Includes progressive technological specialization and its effect upon economic development. Prerequisites: ECON410 and ECON420.

ECON841 Macroeconomics for Teachers (3).
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. Prerequisite: Two years teaching experience while holding an ISBE teaching certification.

ECON842 Microeconomics for Teachers (3).
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. Prerequisite: Two years teaching experience while holding an ISBE teaching certification.

ECON843 Developing an Advanced Placement Economics Curriculum (3).
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.

ECON 870 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

ECON 890 Graduate Thesis/Project: . . . (6) P/NC.
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. Prerequisite: Permission; last trimester of M.B.A. student's program of study.
EDUCATION COURSES

Education - General (EDUC)
Education - Administration (EDAD)
Education - Bilingual-Bicultural (BBED)
Education - Computer Education (EDCP)
Education - Early Childhood (EDEC)
Education - Elementary (ELED)
Education - Professional Development (EDPD)
Education - Special Education (SPED)

Education — General

EDUC310 Foundations of Education (3).
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 ten clock-hours of field experiences related to the learning disabled and other exceptional learners and those with culturally distinctive backgrounds.

EDUC320 Introduction to Teaching (3).
Examines roles of schools and teachers from historical, social, and philosophical perspectives. Elaborates on teaching as decision making. Requires fifteen clock-hours of fieldwork. Corequisite: EDUC321.

EDUC321 Effective Teaching and Laboratory (4).

EDUC330 Educational Psychology: Child Growth and Development (3).
Examines physical growth patterns and cognitive and social-emotional development of children from natural and guided viewpoints. Emphasizes application of this knowledge in planning, implementing, and assessing student activities. Requires fifteen clock-hours of fieldwork. Prerequisites: Admission to Teacher Education, and EDUC321.

EDUC433 Principles of Science Education (3).
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 thirty-five hours of clinical experience in secondary schools.

EDUC434 Teaching Secondary School Science (3).
Science and science teaching are directly related by their goals and methods. Students examine the nature of science from historical, philosophical, and sociological perspectives, then elect to either develop skills in teaching science by inquiry or go more deeply into the ethics and sociological impact of science. Requires thirty-five hours of clinical experience. Prerequisites: EDUC310, EDUC433, PSYC320, and SPED510 or permission.

EDUC440 Educational Psychology: Psychology Applied to Teaching (3).
Examines learning processes and their relationships to task complexity and developmental levels, including those of disabled students. Surveys major views of learning and motivation, including their foundations. Emphasizes applications of this knowledge in classroom settings. Must be taken prior to or concurrently with student teaching. Prerequisites: Admission to Teacher Education, EDUC321, and EDUC330.

EDUC465 Methods of Teaching English (3).
Focuses on the various components of the secondary school English curriculum in which students should develop competencies to meet the full range of responsibilities of the teacher of English. Includes study in the English language, literature, composition, listening, and reading emphases. This course is appropriate for those students who plan to teach English in the secondary school or teach language arts in the elementary school. Prerequisites: twenty-five hours of English and/or literature courses.

EDUC470 Independent Study: . . . (1-6).
Individual reading, research, and/or project in education under the supervision of a faculty member. Deals with content not available in organized courses. Prerequisites: Permission of instructor and division chairperson.
EDUC499 Student Teaching: . . . (9).
Provides the teacher candidate with directed experiences in planning, organizing, and instructing pupils within a regular classroom of an Illinois public school. A student is supervised by a Governors State University faculty member and a school-based cooperating teacher. Includes twelve weeks of full-time classroom experience. Prerequisite: Admission to student teaching; contact coordinator of field experiences.

EDUC520 Developmental Reading in Middle and Secondary Schools (3).
Focuses upon continuation of developmental strategies appropriate for readers in grades six to twelve. Emphasis is upon instruction highlighting skill development in utilization of prior experiences, word knowledge, reading comprehension, reference usage, analysis of literature, and motivation of the adolescent reader. Prerequisites: Open to English majors, elementary education majors admitted to Teacher Education, or graduate students.

EDUC535 Education of Minorities in the U.S. (3).
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.

EDUC565 Behavior Problems in the Classroom (3).
Deals with behavior and attitudes in the classroom. Emphasizes diagnosis and change of typical behavior problems experienced by teachers.

EDUC620 Advanced Developmental Reading Instruction (3).
Examines the nature of the reading process and developmental influences on growth in reading. Examines instructional decision-making processes in reading curriculum development, student placement, and classroom practice. Explores the match between student reading needs and instruction and extends teachers' knowledge of best practice. Examines the place of reading instruction in overall literacy development. Prerequisite: Three hours in undergraduate reading methods.

EDUC625 Models and Strategies for Science Education (3).
Explores advanced methods for teaching science at the elementary, junior, and high school level. The learning cycle and other modes to promote critical thinking in science students will be examined. Students will develop teaching materials based on models reviewed during the course.

EDUC630 Issues and Trends in Education (3).
Examines current issues and trends in education. Emphasizes structural, empirical, and decision-making processes in schools.

EDUC632 Teaching Mathematics to Low Achieving Students (3).
Examines the characteristics and needs of low achieving students. Explores content and teaching strategies and emphasizes diagnostic/evaluative procedures. Prerequisite: An undergraduate mathematics education course or EDUC640.

EDUC640 Teaching and Learning Mathematics (3).
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. Prerequisite: An undergraduate mathematics education course.

EDUC650 Topics in Education: . . . (1-3).
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. Prerequisites: Vary depending on topic.

EDUC700 Instructional Design (3).
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. Prerequisite: EDUC825.

EDUC701 Science of Teaching: Teaching Learning Processes (3).
Examines critical decisions teachers make, provides theoretical perspective to inform this decision making, and provides opportunity to gain experience in identifying and critiquing elements of decision making. Prerequisites: Practicing elementary and secondary teacher.

EDUC703 Science of Teaching: Application of Processes and Principles (3).
Focuses on application of theoretical and practical learning acquired in previous courses in this sequence. Focuses on developing the understanding and skills necessary to analyze teaching behavior with emphasis on predicting and evaluating teaching outcomes. Prerequisite: EDPD702 or EDUC816.

EDUC704 Science of Teaching: Conferencing Skills (3).
Focuses on the application of analytical skills and knowledge acquired in previous courses in this series to conferencing with other teachers regarding their teaching performance. Includes the application of communicative theory to conferencing. Prerequisite: EDUC703.
EDUC705 Science of Teaching: Internship (3).
Provides students an opportunity to identify and
develop solutions to problems with the management
of curriculum and their personnel instructional skill
development within the context of their own teaching
situations. Prerequisites: EDUC704 and a GPA of 3.0
or better in all graduate work attempted.
EDUC712 Developmental Issues in Language Arts
Instruction (3).
Presents the major theories and determinants of
human development. Traces the course of cognitive
and linguistic development. Focuses on instructional
decision making in language arts instruction.
EDUC714 Evaluating Learning in the Language
Arts (3).
Examines measurement of reading and writing
performance and oral language development.
Critiques instruments and applies approaches for
measuring cognitive and linguistic growth in
language arts contexts.
EDUC716 Developing Writing Models from
Children's Literature (3).
Examines structural principles of literature; relates
literary theory to the processes of comprehension
and composition; develops alternate models for using
literature as the center of classroom oral and written
composition activities. Prerequisites: ENGL531 or
equivalent and EDUC719.
EDUC718 Teacher As Writer (3).
Introduces students to the domain of writing from a
personal and professional perspective. Emphasizes
teacher as model writer for students in schools.
Develops successful written self-expression. Develops
the ability to write for publication.
EDUC719 Teaching Writing in the Classroom (3).
Assists classroom teachers in developing a yearlong
written composition program for students. Leads
students from pre-writing experiences to finished
compositions, stories, and reports. Applies current
theory and research in writing to classroom pro-
cesses through which students acquire writing skills.
EDUC728 Aerospace Education (3).
Focuses on materials and equipment available to
teachers at all grade levels for integrating space
education into science and other school subjects.
Materials on space education from NASA, FAA, and
private industry will be used in developing classroom
lessons. Area resources and materials will be utilized
throughout the course.
EDUC732 Issues in Math Curriculum and
Instruction (3).
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. Prerequisite: EDUC640.
EDUC733 Innovation Processes in Education (3).
Develops capabilities for successful application of the
principles/strategies that facilitate and improve
learning and that introduce, implement, and manage
innovation in educational systems.
EDUC739 Teaching Higher Order Thinking
Skills (3).
Investigates the relationship between thinking and
writing skills; explores teacher behaviors that
stimulate higher order thinking skills; and demon-
strates classroom activities promoting generation and
organization of ideas in oral and written composition
assignments.
EDUC742 Health Concerns of Classroom
Teachers (3).
Presents concepts of preventive health and interven-
tion based on ecological principles. Focuses on
drugs, reproduction, nutrition, disease, and safety.
Requires five to ten hours of fieldwork.
EDUC810 Educational Research (3).
Develops literacy in use of the literature of educa-
tional research. Leads to development of research
problems and methods to study the problems. Not
available for credit to students who have received
credit for EDAD729.
EDUC815 Socio-Cultural Factors and Students'
Learning (3).
Examines behavioral and cognitive views of learning
in educational settings. Prerequisite: three
hours undergraduate educational psychology.
EDUC816 Applied Educational Psychology (3).
Examines problem-solving processes related to
teaching mathematics and science. Presents a variety
of techniques for identifying problem situations,
developing problem-solving techniques, and deter-
mining the reasonableness of results. Emphasizes
questioning techniques for developing critical
thinking. Prerequisite: EDUC625 or EDUC640.
EDUC824 Academic Evaluation and Assessment
(3).
Introduces the student to the selection and construc-
tion 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.
EDUC825 Curriculum Development (3).
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.

EDUC827 Issues in Social Studies Education (3).
Examines developments and trends in teaching social studies. Evaluates controversial issues in social studies. Analyzes global education, problems of democracy, and the place of teaching about the future in social studies.

EDUC830 Science, Technology, and Education (3).
Emphasizes the use of environmental education materials to teach basic ecological concepts. Existing environmental education materials such as Environmental Education: A Process Approach, OBIS, and Project Learning Tree will be used to develop science lessons. Students will learn how to use school grounds and park areas along with environmental education materials.

EDUC831 Strategies for Teaching Geometry (3).
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. Prerequisite: EDUC640.

EDUC833 Teaching Mathematics to Mathematically Able Students (3).
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. Prerequisite: EDUC640.

EDUC834 Developing and Supervising Reading Programs (3).
Discusses elements of the total reading program and responsibilities of educational personnel involved in reading instructional delivery. Strengthens strategies for identifying weaknesses in the reading program and for initiating reading improvements. Prerequisite: EDUC860 or permission of instructor.

EDUC835 Integrating Language Arts across the Curriculum (3).
Examines the ways in which students can use writing as a tool for content area learning; reviews research findings underlying an integrated approach to learning; illustrates specific language-across-the-curriculum methods. Prerequisites: EDUC712 and EDUC719 or permission of instructor.

EDUC836 Developing and Supervising Reading (3).
Examines text and reader qualities that make content area reading difficult for developing readers. Explores instructional strategies that can facilitate content area learning by reading. Develops procedures for diagnosing readiness for content area instruction and procedures for facilitating learning by reading. Prerequisite: One course in reading.

EDUC838 Supervising Language Arts Instruction (3).
Analyzes the characteristics of effective language arts instruction; presents curriculum development strategies for defining and evaluating language arts objectives; defines role expectations and builds competencies for the task of school language arts coordination; provides theory and practice in implementing professional growth experiences for classroom teachers. Prerequisites: EDUC825 and EDUC835 or permission of instructor.

EDUC842 Reading Diagnosis (3).
Identifies factors that inhibit success in reading and analyzes resultant reading difficulties. Strengthens skills in diagnostic procedures in classroom settings. Prerequisite: EDUC620 or EDUC848.

EDUC845 Quantitative and Qualitative Designs in Educational Research (3).
Provides students with a working knowledge of practical research design skills in qualitative methodologies. Emphasis is on developing a working proficiency in design techniques. Prerequisites: EDUC810 and competency in introductory statistics.

EDUC846 Reading Remediation in the Classroom (3).
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. Prerequisite: EDUC842 or SPED619.

EDUC848 Teaching Reading in the Content Areas (3).
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. Prerequisite: EDUC640.

EDUC852 Advanced Methods of Teaching Social Studies (3).
Focuses on citizens as decision-makers in a democratic society. Evaluates controversial issues in teaching social studies. Analyzes problems of democracy, global education, and societal values in teaching social studies.

EDUC860 Practicum in Reading (3).
Provides a supervised clinical practicum experience in diagnostic and remedial tutorial work for disabled readers in elementary schools. Meets the ISBE requirements for partial fulfillment of the reading specialist qualification. Prerequisite: EDUC846.

EDUC865 Graduate Seminar in Education (3).
Reviews selected current topics in education. Requires the writing of a research paper related to the student’s field of study. Prerequisites: Completion of twenty-seven semester-hours of study and admission to candidacy in the M.A. in Education.
EDUC869 Research Project in: (Specialization) (3) P/NC.
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 analyses of problems. Prerequisites: Admission to candidacy, at least twenty-seven hours in master's program, and advisor approval.

EDUC870 Independent Study: . . . (1-6).
Individual reading, research, and/or project in education under the supervision of the faculty. Prerequisites: Permission of instructor and division chairperson.

EDUC890 Thesis I in: (Specialization) (3) P/NC.
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. Prerequisites: EDUC845 or STAT860 or concurrent enrollment; admission to candidacy, at least twenty-seven hours in master's program, and advisor approval. See program options under M.A. in Education for other prerequisites.

EDUC891 Thesis II in: (Specialization) (3) P/NC.
Allows students to complete their research initiated in Thesis I. Thesis II culminates with successful oral defense of the research. Prerequisite: EDUC890.

Education—Administration

EDAD601 Curriculum Development and Learning Theories (3).
An analysis of the basic determinants of curriculum; factors influencing design, current trends, and school reforms, including experimental programs and practices. Theories and methods of learning and models of teaching in the classroom will be emphasized as they relate to sociological and cultural factors of all children and minority children from different social and ethnic backgrounds. Special education programs are included. Methods are outlined for evaluating the effectiveness of curricula and programs. Prerequisites: Graduate status, twelve hours of professional education; open to educational administration majors only.

EDAD618 The Adult Learner (3).
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. Prerequisite: Graduate status.

EDAD621 Foundations of School Administration and Organization (3).
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. Prerequisites: Graduate status and twelve hours of professional education.

EDAD713 Human Relations and Leadership (3).
Study of basic concepts and principles of interpersonal relationships, dynamics of groups, and organizational leadership. Emphasis on theory and application. Student will learn to observe and assess interpersonal, group, and organizational dynamics in multicultural settings and learn effective interactions and problem-solving skills. Designed for teachers, trainers, supervisors, administrators, school service personnel, and community leaders. Prerequisite: EDAD621 or permission of instructor.

EDAD724 School Supervision (3).
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. Prerequisite: EDAD621 or permission of instructor.

EDAD729 Research in Educational Administration (3).
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. Prerequisite: EDAD621; open to educational administration majors only.
EDAD731 Community Relations (3).
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. Prerequisite: EDAD621.

EDAD820 The Community College (3).
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. Prerequisite: EDAD621 or permission of instructor.

EDAD822 Elementary and Secondary School Administration and Supervision (3).
An examination of the elementary and secondary school with emphasis upon the role of the principal 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. Prerequisite: EDAD621.

EDAD823 Community College Administration (3).
Examines college administration in different areas of college operations. Focuses on policy-setting processes. Prerequisites: EDAD621 and EDAD820.

EDAD832 School Finance (3).
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. Prerequisite: EDAD621.

EDAD833 School Law (3).
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. Prerequisites: EDAD621 and EDAD729.

EDAD834 Practicum in Instructional Leadership and School Management I (3) P/NC.
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. Prerequisites: Completion of twenty-one hours of required courses.

EDAD835 Practicum in Instructional Leadership and School Management II (3) P/NC.
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. Prerequisites: Completion of twenty-four hours of required courses and EDAD834.

EDAD836 Administration of School Personnel (3).
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. Prerequisite: EDAD621.

EDAD838 Collective Negotiations (3).
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. Prerequisite: EDAD621.

EDAD84A The Politics of Education (3).
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. Prerequisite: Permission of dean of the College of Education.
EDAD845 Practicum in School Business Management (3) P/NC.
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. Prerequisites: Completion of twenty-four hours of required courses.

EDAD850 Seminar: Educational Policies and Issues (3).
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 handicapped students.

EDAD86A The Dynamics of Maintaining and Improving School Climate (3).
Examines the dynamics of the relationship among school administration, the community, and the teacher's 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. Prerequisites: Experience as school administrator and permission of dean of the College of Education.

Education — Bilingual-Bicultural

BBED51A Introduction to Bilingual-Bicultural Communication (3).
Introduces students to issues of bilingualism, bidialectism, language development, language attitudes, non-verbal communication in bilingual settings, and language assessment. These issues are directly related to the student's own experience through assessment of the student's linguistic proficiency. Prerequisites: Successful completion of the university writing proficiency exam and the College of Education's reading proficiency exam or permission. Students must have a minimum level of bilingual competency for participation in this course, as determined by the scores on the pretest.

BBED520 Foundations of Bilingual Education (3).
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 ten clock-hours of field experience. Prerequisites: BBED520 and EDPD370 or permission of instructor.

BBED525 Assessment of Bilingual Students (3).
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. Prerequisite: BBED520 or permission of instructor.

BBED530 Methods and Materials for Teaching in Bilingual Programs (3).
Prepares students to teach language arts and reading in Spanish, as well as English as a second language to Spanish speaking, limited English proficient students. Focuses on planning and implementing reading strategies for the following three methods: onomatopoetic, global, and eclectic, and applies the principles of linguistics to the teaching of English pronunciation, structure, and vocabulary to non-native speakers of English. Requires ten clock-hours of fieldwork. Prerequisite: BBED525.

BBED535 Methods of Teaching Reading and Language Arts to Bilingual-Bicultural Students (3).
Prepares students to teach language arts and reading in Spanish, as well as English as a second language to Spanish speaking, limited English proficient students. Focuses on planning and implementing reading strategies for the following three methods: onomatopoetic, global, and eclectic, and applies the principles of linguistics to the teaching of English pronunciation, structure, and vocabulary to non-native speakers of English. Requires ten clock-hours of fieldwork. Prerequisite: BBED525.

BBED538 Ethnic Minorities in the United States (3).
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.

BBED61A Field Experience in Bilingual Education (3).
Provides a supervised field experience in bilingual education for limited English proficiency students. Includes experiences in language proficiency assessment and development of curriculum in reading, teaching English as a second language, and other selected subject areas. Requires ninety clock-hours of fieldwork and fulfills the clinical experience requirements of the state for approval in transitional bilingual education. Prerequisites: BBED525 and ENGL508, or permission.

BBED740 Psychological Implications of Bilingual-Bicultural Education (3).
Identifies factors, problems, materials, and instructional strategies appropriate to the education of bilingual-bicultural children.
BBED793 Spanish Language Arts Instruction (2,3).
Develops Spanish language skills of listening, speaking, reading, and writing for Spanish-speaking children. Students diagnose and remediate language inference in the first and second language.

BBED797 Reading Strategies in the Bilingual Classroom (3).
Develops and enhances knowledge and skills associated with instruction of reading in the bilingual classroom. Students will plan and implement reading strategies. Requires five to ten clock-hours of fieldwork.

Education — Computer Education

EDCP500 Introduction to Microcomputers in Education (3).
Examines the impact and use of microcomputers in today's educational system, particularly as they apply to the introduction, use, and evaluation of the microcomputer as an instructional and managerial aid. Students discuss and apply strategies for assessing needs and the selection of hardware and software at an introductory level.

EDCP610 Evaluating Software for Instruction (3).
Enhances the student's ability to select and use microcomputer software and hardware. Activities center around the development of selection criteria for software. Students experience a hands-on approach to judging and selecting microcomputer software to meet educational objectives and needs. Prerequisite: EDCP500 or permission of the instructor.

EDCP620 Programming in BASIC (3).
Provides a fundamental level of working knowledge of computers and computer programming. Presents a general introduction to computing concepts, operations, and programming. Requires completion of a project on a topic acceptable to the instructor. Prerequisite: MATH310 or MATH320 or MATH325.

EDCP640 Programming in Pascal (3).
Introductory study of the Pascal programming language. Focuses on top-down, structured programming techniques. Topics include control statements, data type control structures, arrays and subscripts, records and sets, nested structures, and recursion. Requires completion of a project. Prerequisites: MATH325; not open to undergraduates.

EDCP645 Programming in C++ (3).
The purpose of this course is to introduce the C++ programming language including its syntax, control structures, functions, data structures, and the use of pointers. Students will use the Turbo C/C++ compiler to write, run, and debug programs on IBM PC compatible computers. Emphasis will be replaced on clarity and correctness of the resulting programs. Requires a substantial commitment of time for the completion of programming assignments. Prerequisites: CPSC340 and college algebra or equivalent.

EDCP732 Educational Applications of the Microcomputer: Mathematics (3).
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. Prerequisite: EDCP610 or permission of instructor.

EDCP735 Educational Applications of the Microcomputer: Reading and Writing Development (3).
Provides the student with instructional applications of the microcomputer for use in reading, language arts, and writing skills development. Topics covered span the range from developmental through remedial applications. Particular emphasis is placed upon the use of the microcomputer for the enrichment of the reading-writing connection. Prerequisite: EDUC610 or permission of instructor.

EDCP736 Educational Applications of the Microcomputer: Science (3).
Enables students to evaluate, utilize, and develop computer software for use in science classrooms. Involves reviewing available science software, testing software in the classroom, and developing programs for use with science courses. Prerequisite: EDCP610 or permission of instructor.

EDCP737 Educational Applications of the Microcomputer: Special Education (3).
Investigates the use of microcomputers in special education and the multitude of uses this technology offers the handicapped. Includes emphasis on user-oriented applications of the microcomputer, classroom problem-solving techniques, and computer assisted instruction (CAI). Prerequisite: EDCP610 or permission of instructor.

EDCP770 Administrative Uses of Microcomputers (3).
An overview of the administrative uses of microcomputers in educational settings. Emphasis will be on data management functions. Focus on hardware and software for use with budgets, schedules, recordkeeping, data processing, and word processing. Also includes review of educational hardware and software packages. Prerequisites: Graduate standing.

EDCP850 Integrating Microcomputer-Based Education (3).
Provides students with a synthesis of computer education issues. Topics include uses and abuses of microcomputers, future roles of microcomputers, educational staffing and training issues, hardware and software cost analyses, promoting computer literacy, and other related issues. Prerequisite: EDCP610.
EDCP860 Practicum in Microcomputer Education (3).
Provides supervised practicum experience in microcomputer education and instruction. Students work with learners in either a classroom, laboratory, or computer lab setting assisting the learners in developing proficiency in either the use of microcomputers or skill development in a subject area through the use of a microcomputer. Prerequisite: EDCP850.

Education — Early Childhood

EDEC310 Growth and Development of Young Children (3).
Surveys major theories of child growth and development as frameworks for examining children from conception through eight years of age. Causes and characteristics of developmental anomalies are reviewed. Investigations of developmental patterns incorporate selection and use of early childhood assessment procedures. Requires fifteen clock-hours of fieldwork.

EDEC330 Early Childhood Education Lab I (1) P/NC.
Provides opportunities for students to make, implement, and evaluate decisions under supervision in teaching reading and language arts. Requires teaching small groups of preschool or primary grade students. Requires thirty clock-hours of fieldwork. Prerequisites: Admission to Teacher Education, and EDUC321. Corequisites: EDEC520 and ELED302.

EDEC410 Foundations of Early Childhood Education (2).
Investigates historical and philosophical bases for 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. Must be taken before or concurrently with ELED499.

EDEC415 Child and Family in the Community (3).
Overview of the cultural differences, child-rearing practices, communication patterns, experiences of families, and the life stresses that affect the young child and his views of self and others in his family, school, and community. Explores ways in which the schools can provide services to families and identifies support networks in the community. Prerequisite: EDEC310.

EDUC430 Early Childhood Education Lab II (1) P/NC.
Provides opportunities for students to make, implement, and evaluate decisions under supervision while engaging in teaching episodes involving science, mathematics, social studies, and language arts. Requires teaching small groups of preschool children. Requires thirty clock-hours of fieldwork. Prerequisites: Admission to Teacher Education, and EDUC321. Corequisites: ELED460, ELED463, and ELED466.

EDEC510 Integrating Instruction in Early Childhood Education (3).
 Prepares teachers to make educationally and developmentally appropriate instructional decisions in social studies, arts, and movement and to use these areas as the basis for broader academic instruction. Addresses the need for the adoption of social studies, arts, and movement experiences to the atypical learner. Prerequisite: A course in growth and development of young children.

EDEC520 Beginning Writing and Reading Instruction (3).
Introduces preservice teachers to content, methodology, and materials for teaching reading and writing at the preschool and kindergarten through third grade levels. Explores options for making instructional decisions. Prerequisites: A course in growth and development of young children and completion or concurrent enrollment in a speech and language development course.

EDEC605 The Child in Family and Community (3).
Focuses on the child's experience in families and communities, including cultural differences, child-rearing practices, communication patterns, and life stress, as it affects the young child and his/her view of self and others. Explores the research literature to assess ways in which schools can be responsive to the needs of families and communities. Identifies support networks in the community. Requires ten clock-hours of fieldwork. Prerequisites: EDUC810 and PSYC805.

EDEC725 History and Philosophy of Early Childhood Education (3).
Investigates the status of young children in history, focusing on the development of early childhood education in western Europe. Traces various influences on the development of early childhood educational practices in America and explores emerging cross-cultural exchanges between Eastern and Western early childhood educators.

EDEC736 Curriculum and Instruction in Early Childhood Education (3).
Examines and evaluates early childhood education content, models, and related literature as sources for curricula and instruction. Reviews research on curriculum and instruction, including that relevant to special populations. Preparatory for decision making based on well established professional knowledge. Prerequisite: PSYC805.

EDEC738 Health and Nutrition for the Young Child (3).
Reviews the relevant literature and research on the effects of nutritional factors on physical and cognitive development. Examines educational implications.
EDEC830 Practicum in Early Childhood Education: Infants and Toddlers (1).
Under supervision, students gain experience in observing and assessing the development of infants and toddlers, assist in developing and maintaining an appropriate educational environment, plan appropriate learning experiences for the very young child, and deliver teaching episodes. Requires thirty clock-hours of field experience. Prerequisites: PSYC805; open only to M.A. in Education majors in the early childhood teaching specialization.

EDEC840 Practicum in Early Childhood Education: Preschool (1).
Under supervision, students gain experience in observing and assessing the development of preschool-aged children, assist in developing and maintaining an appropriate educational environment, and create and deliver teaching episodes. Requires thirty clock-hours of field experience. Prerequisites: PSYC805; open only to M.A. in Education majors in the early childhood teaching specialization.

EDEC850 Practicum in Early Childhood Education: Primary Level (1).
Under supervision, students gain experiences in observing and assessing the development of children in the primary grades, assist in developing and maintaining an appropriate educational environment, and create and deliver teaching episodes. Requires thirty clock-hours of field experience. Prerequisites: PSYC805; open only to M.A. in Education majors in the early childhood teaching specialization.

ELED301 Teaching Laboratory I (1) P/NC.
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 thirty clock-hours of fieldwork. Prerequisites: Admission to Teacher Education and EDUC321. Corequisites: ELED302 and ELED303.

ELED302 Teaching Language Arts in Elementary Schools (3).
Introduces prospective teachers to content, methodology, and materials for elementary school language arts. Explores options for making instructional decisions. Prerequisites: Admission to Teacher Education, EDUC320, EDUC321, and ENGL301. Corequisites: ELED301 and ELED302.

ELED303 Developmental Reading in Elementary Schools (3).
Introduces prospective teachers to content, methodology, and materials for elementary school reading. Explores options for making instructional decisions. Prerequisites: Admission to Teacher Education, EDUC320, and EDUC321. Corequisites: ELED301 and ELED302.

ELED401 Teaching Laboratory II (1) P/NC.
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 thirty clock-hours of fieldwork. Prerequisites: Admission to Teacher Education, EDUC321, and ELED301. Corequisites: ELED460 and ELED466 and either ELED463 or ELED464.

ELED450 Corrective Reading Instruction (2).
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 or concurrently with student teaching. Prerequisites: Admission to Teacher Education and ELED303.

ELED460 Teaching Science in Elementary Schools (3).
Introduces prospective teachers to content, methods, and materials for elementary school science. Explores options for making instructional decisions. Prerequisites: Admission to Teacher Education, EDUC321, and courses in biological and physical sciences to total twelve hours. Corequisites: ELED463 and ELED466.

ELED463 Teaching Mathematics in Elementary Schools (3).
Introduces prospective teachers to content, methods, and materials for elementary school mathematics. Explores options for making instructional decisions. Prerequisites: Admission to Teacher Education, EDUC321, MATH320, and MATH322. Corequisites: ELED401, ELED460, and ELED466.

ELED464 Teaching Mathematics in the Intermediate and Middle Grades (3).
Introduces prospective teachers to content, methods, and materials for upper-elementary and junior high school mathematics. Explores options for making instructional decisions. Prerequisites: MATH320 and MATH322, and twelve hours of college level mathematics.
ELED466 Teaching Social Studies in Elementary Schools (2).
Introduces prospective teachers to content, methods, and materials for elementary school social studies. Explores options for making instructional decisions.
Prerequisites: Admission to Teacher Education, EDUC321, U.S. government, and American history.
Corequisites: ELED401, ELED460, and ELED463.

ELED499 Student Teaching (9, 12).
Supervised teaching for twelve weeks in a public school under the supervision of a superior classroom teacher and a university supervisor. Participation in periodic seminars dealing with classroom related issues. Prerequisite: Admission to Student Teaching.

Education — Professional Development

Credits earned in the following EDPD courses cannot be applied toward degree requirements of the M.A. in Education.

EDPD370 Methods of Teaching (3).
Provides the student with linkage between theory, philosophy, and methodology. Introduces the prospective teacher to the foundations of methodology and to the myriad decisions that teachers have to make. Apprises students of a variety of approaches to lesson planning and unit planning, with special emphasis on the needs of culturally diverse students. Includes ten clock-hours of field experience.

EDPD380 Methods of Teaching Language Arts (3).
Introduces the prospective teacher to programs of language arts instruction at the elementary level, including methods, materials, goals, and management strategies for teaching oral and written communication, spelling, composition, and handwriting.
Prerequisites: Satisfactory completion of university requirements for writing, PSYC320, EDUC310, EDPD370, and either ENGL501 or ENGL531; or concurrent enrollment in a general methods course.

EDPD424 Methods of Teaching Elementary Math (3).
Introduces prospective teachers to the content, methodology, and instructional materials for elementary school mathematics program. Emphasizes application of knowledge from learning theory, diagnostic/prescriptive teaching, and individual differences in selecting, organizing, and presenting mathematical content for elementary school children.
Prerequisites: EDUC310, PSYC320, EDPD370, and MATH322.

EDPD426 Methods of Teaching Reading (3).
Surveys the various phases of reading in their relation to a modern program of education and the place of reading in the curriculum. Emphasizes modern practices in the classroom teaching of reading.
Prerequisites: EDUC310, PSYC320, and EDPD370; or concurrent enrollment in a general methods class.

EDPD511 Sharing Nature with Children (1).
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.
Prerequisite: At least one undergraduate or graduate class in language arts.

EDPD621 Seasonal Science Methods: Autumn (1)
P/NC.
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.

EDPD622 Seasonal Science Methods: Spring (1)
P/NC.
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.

EDPD623 Seasonal Science Methods: Summer (1)
P/NC.
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.

EDPD624 Seasonal Science Methods: Winter (1)
P/NC.
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.
SPED610 Survey of Exceptional Students (3).
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 exceptional children and considers legal requirements, policies, and directions in special education. Requires fifteen clock-hours of fieldwork.

SPED600 Identification and Characteristics of Gifted Students (3).
Identifies the most common characteristics of gifted and talented students. Analyzes the reliability and validity of various techniques used in gifted student identification. Presents an overview of fundamental gifted teaching philosophies. Proposes problems encountered in gifted programs as well as possible solutions. Stresses the need and importance of gifted programs to the current educational system. Requires ten clock-hours of fieldwork.

SPED610 Survey of Teaching-Learning Models for Gifted Education (3).
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 ten clock-hours of fieldwork.

SPED619 Psychological Diagnosis of Exceptional Learners (3).
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 twenty clock-hours of fieldwork. Prerequisite: SPED610.

SPED621 Developing Gifted Programs in Schools (3).
Proposes the concept of curriculum differentiation for the gifted. Outlines a program initiation framework. Provides a step-by-step procedure for planning and implementing gifted programming. Requires ten clock-hours of fieldwork. Prerequisites: SPED600 and SPED610.

SPED650 Topics in Professional Development: . . . (1-3).
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. Prerequisites: Vary according to topic.

EDPD702 Science of Teaching: Teaching Learning Principles (3).
Focuses on the instructional process. Presents the concepts of motivation, reinforcement, and learning theory and the application of these concepts in classroom teaching. Prerequisite: EDUC710 or concurrent enrollment.

Education — Special Education

SPED510 Survey of Exceptional Students (3).
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 exceptional children and considers legal requirements, policies, and directions in special education. Requires fifteen clock-hours of fieldwork.

SPED600 Identification and Characteristics of Gifted Students (3).
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Proposes the concept of curriculum differentiation for the gifted. Outlines a program initiation framework. Provides a step-by-step procedure for planning and implementing gifted programming. Requires ten clock-hours of fieldwork. Prerequisites: SPED600 and SPED610.

SPED650 Topics in Special Education: . . . (1-3).
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.

SPED805 Administration and Supervision of Special Education (3).
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. Prerequisites: Open to Multicategorical Special Education, Educational Administration, or Psychology majors only.

SPED820 Learning Characteristics of LD, EMH, and S/ED Students (3).
Examines the social-affective development across the continuum of behaviors of learning disabled, educable mentally handicapped, or social/emotional disordered. Emphasizes the characteristics of the mildly handicapped. Requires thirty clock-hours of fieldwork. Prerequisite: SPED510; open to Multicategorical Special Education majors only.

SPED831 Behavioral Characteristics of LD, EMH, and S/ED Students (3).
Examines the social-affective development across the continuum of behaviors of learning disabled, educable mentally handicapped, or social/emotional disordered. Emphasizes the mildly handicapped. Requires twenty clock-hours of fieldwork. Prerequisites: SPED820 or concurrent enrollment; open to Multicategorical Special Education majors only.

SPED835 Methods for Teaching LD, EMH, and S/ED Students (3).
Examines advanced methods and teaching techniques for use with learning disabled, educable mentally handicapped, or social/emotional disordered students. Emphasizes the mildly handicapped. Examines strategies for curriculum development and writing IEPs. Requires twenty clock-hours of fieldwork. Prerequisites: SPED619 and SPED831; open to Multicategorical Special Education majors only.

SPED840 Special Education Practicum I (1).
Participation in remediation and staffing activities in special education settings. Requires preparation of a case study and thirty clock-hours of fieldwork. Prerequisite: SPED820, SPED831 and completion or concurrent enrollment in SPED619 and SPED835; open to Multicategorical Special Education majors only.
SPED850 Special Education Practicum II (1).
Provides advanced professional experience in implementing management techniques and individualized study plans for exceptional children in multicategorical special education settings. Requires thirty clock-hours of fieldwork. Prerequisite: SPED820, SPED831 and completion or concurrent enrollment in SPED619 and SPED835; open to Multicategorical Special Education majors only.

SPED860 Consultative Techniques for Special Educators (3).
Provides teachers and other school personnel with an indirect-service model to enhance student and classroom performance. Presents a systematic, problem-solving approach for creating alternative strategies to improve specific problem situations. Focuses on interview and observation techniques, parent collaboration, intervention development, service evaluation and accountability, and applicability of this model to problems in school situations. Requires fifteen clock-hours of field experience. Prerequisite: SPED850.

SPED863 Special Education Practicum III (1).
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 thirty clock-hours of fieldwork. Prerequisites: SPED840 and SPED850; open to Multicategorical Special Education majors only.

SPED865 Graduate Seminar in Multicategorical Special Education (4) P/NC.
Examines current trends and issues in multicategorical special education. Explores contemporary philosophies of educating mildly handicapped students, instructional alternatives, and service delivery programs. Prerequisites: SPED835 and EDUC810; completion of at least thirty credit-hours in the Multicategorical Special Education major.

ENGL310 Writing Principles (3).
Offered as a correspondence course only. Emphasizes principles, techniques, form, and style in writing.

ENGL311 English Literature I (3).
Survey a selection of literary masterpieces from Anglo-Saxon origins through the Middle Ages and the English Renaissance to the Restoration and eighteenth century.

ENGL312 English Literature II (3).
Survey a selection of literary masterpieces in English literature from the Romantic period through the Victorian and Modern periods to the present.

ENGL321 American Literature I (3).
Focuses on the major writers, works, and related background in American literature before 1865.

ENGL322 American Literature II (3).
Focuses on the major writers, works, and related background in American literature, 1865-1945.

ENGL330 Studies in Literature (3).
Brings literature into the life of the educated citizen. Students will study consequential works of English, American, and world literature as a prologue to a lifetime of reading.

ENGL381 Advanced Writing I (3).
Covers form, style, and the mechanics of writing persuasive, informative essays, and other documents. Designed as an upper-division writing course to enhance and improve student writing ability.

ENGL410 Studies in Rhetoric (3).
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.

ENGL420 Modern American Poetry: Voices and Visions (3).
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.

ENGL470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in English under the supervision of the faculty. Prerequisite: Permission.

ENGL501 Introduction to Linguistics (3).
Provides a comprehensive introduction to the ways in which linguistics describe language, focusing especially on English. Explores all levels of 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.

ENGL508 Teaching English As a Second Language (3).
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.
ENGL510 Major English Authors: . . . (3).
Concentrated study of selected authors. Students may take course for credit more than once, because the authors selected change from year to year.

ENGL511 African Novel (3).
A critical analysis of the literature written by selected major African writers.

ENGL512 Black Literature I: 1760-1900 (3).
Offered as a correspondence course only. Generally surveys black prose from colonial period to 1900. Covers a wide variety of works from several genres, with a major emphasis on prose embracing the slave narratives and early black fiction.

ENGL513 Black Literature II: 1900-1941 (3).
Provides a model for approaching black literature from a variety of literary and sociocultural perspectives, with a special emphasis on the Harlem renaissance and major authors, including Paul Laurence Dunbar, Charles Chesnut, and James Weldon Johnson.

ENGL514 Black Literature III: 1941-Present (3).
Continuation of Black Literature II. Embraces all genres and extends chronologically from World War II to the present. The main focus is on authors such as Wright, Baldwin, Ellison, Margaret Walker, Alice Walker, and Toni Morrison, as well as black writers of the civil rights movement.

ENGL515 Major Black Authors: . . . (3).
Individual black writers will be studied in-depth. Students may register in this course for credit more than once as the authors studied vary from year to year.

ENGL520 Major American Authors: . . . (3).
Individual American writers will be studied in-depth. Students may take course for credit more than once, as the authors studied vary from year to year.

ENGL521 Comparative Latin American Literature (3).
Studies the Latin American novel. Covers major writers of different Latin American countries and the poetry of protest and revolution in the 20th century.

ENGL524 Contemporary American Literature (3).
Focuses on the major writers, works, and related background in American Literature after 1945. Prerequisites: ENGL321 and ENGL322 or equivalent.

ENGL525 Advanced Writing II: Interdisciplinary Writing Workshop (3).
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. Prerequisite: ENGL381.

ENGL531 Literature for Children and Adolescents (3).
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.

ENGL532 Literature of Immigrant Children (3).
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 American black literature.

ENGL535 Literature and History: . . . (3).
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).

ENGL540 Bible As Literature in Social Context (3).
Introduces the diverse literary genres of biblical literature in their social/cultural setting. Utilizes the recent knowledge of archaeology, linguistics, and Near Eastern studies.

ENGL541 Chinese Literature and Culture (3).
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 influences on Chinese culture.

ENGL542 Literary Criticism (3).
Examines major approaches to criticism as a means of critiquing literature from a variety of perspectives on a variety of levels.

ENGL545 Persuasion Analysis (3).
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.

ENGL550 Technical and Professional Communications (3).
Examines through case studies and professional documents the numerous and varied forms of written and spoken communication in business and the professions. Emphasizes the importance of all aspects of communication in contemporary industry, business, and, where applicable, health sciences, computer technology, and other professions. Prerequisite: ENGL381.
ENGL551 Shakespeare's Plays (3).
Offered in both lecture and televised formats. Reading and analysis of Shakespeare's plays, including history plays, comedies, tragedies, and romances. Graduate students will address textual problems.

ENGL560 Philosophical Themes in Contemporary Literature (3).
Examines philosophical ideas embodied in literary works of art and presents a methodology of thematic studies in literature.

ENGL562 Literary Genre: . . . (3).
Examines the form, content, and history of the development of the various genre of literature in English, including poetry, dramatic literature, narrative fiction, the essay, and modern variations. This is a variable offering and may be taken more than once under different subtitles.

ENGL570 Rhetorical Theory and Practice (3).
Examines the history of rhetoric and composition and contemporary issues in rhetorical theory and pedagogical practice. Develops the student's abilities as a writer. Prerequisite: ENGL381.

ENGL572 Computers and Composition (3).
Focuses on the use of word processing and computer-aided instruction as part of the writing process. Where possible, students will review available software (CAI) packages.

ENGL580 Special Topics: . . . (1-3).
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.

ENGL590 Research Techniques (3).
Instruction and practicum in research techniques ranging from basic library skills to advanced methods of information storage and retrieval.

ENGL592 Historical Studies in the English Language (3).
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—pscholinguistic and sociolinguistic.

ENGL620 Women in Latin American Literature (3).
Studies literary works produced by women in Latin America. Includes a critical analysis of other works that reflect the role women play in society.

ENGL690 Pro-Seminar for Teachers of Writing (3)
Emphasizes the methods and practice of teaching writing. Focuses on methods of motivating students, pre-writing, free writing, style development, revision and evaluation. Prerequisite: Graduate student status.

ENGL830 Seminar: Advanced Composition and Rhetorical Theory (3).
Focuses on extensive readings in a major area of composition, rhetorical, and critical theory. Where appropriate, seminar participants will investigate the relationship of theory to college-level practice.

ENGL840 Seminar: Philosophy in Literature (3)
Focuses on philosophical themes in literature. Offers a forum at an advanced level where thematic studies are the focus of investigation in literary works.

ENGL845 Seminar: English Literature (3)
Studies a selected period of English literature, including Medieval, English Renaissance, Restoration and Eighteenth Century, Romantic and Victorian, Modern and Post-Modern. Literature of a period is related to historical, political, social, and religious currents of the times. Students concentrate on a period of their choice.

ENGL850 Seminar: American Literature (3)
Focuses on extensive readings on one period in American Literature. Typically, students read both primary and secondary literary works and secondary critical and historical analyses.

ENGL870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in English under the supervision of the faculty. Prerequisite: Permission.

ENGL890 Graduate Thesis/Project: . . . (3).
Provides the English student the opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in English. Prerequisite: Permission of advisor.

Finance

FIN301 Principles of Financial Management (3).
Deals with theory and practice of the financial management function in planning, raising, and directing the efficient allocation of funds within the firm. Prerequisites: ACCT301, ACCT302, ECON301, and STAT361.

FIN310 Estate and Personal Planning (2).
Focuses on the development of a financial plan for identifying long-term goals through budget and spending plans. Cannot be used to meet degree requirements of the B.A. in Business Administration.

FIN420 Advanced Corporation Finance (3).
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. Prerequisite: FIN301.
FIN425 International Financial Management (3).
Focuses on international aspects of financial management. Particular emphasis is placed on control of exchange rate and financing multinational corporations. Prerequisite: FIN301.

FIN436 Option Pricing Theory and Application (3).
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.
Prerequisite: FIN301.

FIN440 Insurance and Risk Management (3).
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.
Prerequisite: FIN301.

FIN455 Financial Institutions and Markets (3).
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. Prerequisites: FIN301 and ECON301.

FIN460 Investments (3).
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. Prerequisite: FIN301.

FIN465 Advanced Investments (3).
A review of investment and portfolio management theory. The objective will be to develop superior long-term investment strategies. Current literature will be reviewed. Prerequisite: FIN460.

FIN470 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

FIN480 Internship: . . . (3).
Designed to provide finance students with supervised practical experiences in applied settings. Prerequisite: Permission.

FIN801 Problems in Financial Management (3).
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. Prerequisites: FIN301, MATH355, and STAT361.

FIN830 Financial Markets (3).
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. Prerequisite: FIN801.

FIN850 Investments (3).
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. Prerequisites: FIN301 and STAT361.

FIN855 Problems in Analysis of Financial Statements (3).
Emphasizes external accounting rather than internal or managerial. Covers analytical tools and techniques of financial analysis, bases that underlie the preparation of financial statements, distortions to which income determination and asset and liability measurement are subject, and processes and methodology of financial statement analysis. Prerequisite: FIN301.

FIN860 Financial Institutions (3).
Presents a detailed study of the total financial sector of the economy from the point of view of individual financial institutions. Provides analysis of policies, practices, and regulation of commercial banks; savings and loan associations; financial, insurance, and investment companies; relevant governmental agencies; and others. Prerequisite: FIN801.

FIN865 Advanced Financial Management (3).
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. Prerequisites: FIN801 and STAT362.
FIN870 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

FIN880 Internship: . . . (3).
Designed to provide finance students with supervised practical experience in applied settings. Prerequisite: Permission.

FIN890 Graduate Thesis/Project: . . . (6) P/NC.
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. Prerequisite: Permission of advisor or committee.

Geography

GEOG310 Physical Geography (3).
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, vegetation from a global as well as urban perspective. Emphasizes understanding the various natural systems and how they relate to the built environment.

GEOG32A North American Geography (3).
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.

Geology

GEOL322 Geological Science Foundations (2).
Describes the earth's physical environments in terms of geologic processes: weathering, erosion, deposition, glaciation, tectogenesis, and volcanism. Developmental history and geomorphology of midwest landforms are emphasized. Corequisite: GEOL323.

GEOL323 Geological Science Foundations Laboratory (2).
Covers laboratory and fieldwork associated with GEOL322. Includes three Saturday field trips on dates indicated in course schedule. Corequisite: GEOL322.

GEOL533 Geological Field Studies: Upper Mississippi Valley (3).
A field study of the physical and historical geology of the Upper Mississippi Valley and drift-free area. Emphasis is on site history and developmental processes. This is a five-day trip with on-campus work preceding and following. Prerequisites: Eight hours of earth science and eight hours of biology or permission of instructor.

GEOL544 Geological Field Studies: Grand Canyon Area (3).
A six-day field trip with preparatory class work and laboratories. Focuses on dry-land processes of geochemical alteration of rocks and erosion and the historical development of the Grand Canyon area. Prerequisites: Eight hours of earth science and eight hours of biology or permission of instructor.

GEOL602 Environmental Science: Earth Science (2).
Field course offered at Camp Sagawau. Emphasizes relationships between land forms and geologic processes. Uses local examples and includes mapping skills. Designed as in-service course for teachers.

Health Administration

HLAD325 Health Care Organization (3).
Provides an understanding of how health care is organized in the United States and the way it is provided to consumers.

HLAD340 Medical Sociology (3).
Applies sociological knowledge, concepts, and methodologies to health care processes for the purpose of enhancing the understanding of health administrators on the dynamics of interaction between patients and providers.
HLAD450 Health Planning (3).  
Introduces students to health planning concepts, methods, and data sources useful in developing community and institutional health plans. Prerequisite: HLAD325.

HLAD455 Management in the Health Care Setting (3).  
Examines the management, environment, and personnel of diverse health care facilities. Emphasis is placed upon applying descriptive information to various operational situations and problems encountered by junior or mid-level managers. Prerequisites: HLAD325 and MGMT301.

HLAD460 Health Care Economics (3).  
Applies economic analysis to health and health care services. Examines the concept of health as human capital. Investigates special features of the supply, demand, distribution, and economic impact of health care delivery. Prerequisites: HLAD325 and ECON301.

HLAD465 Legal Aspects of Health Care (3).  
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. Prerequisite: HLAD325.

HLAD468 Institutional Management for Health Care Organizations (3).  
Designed to be the capstone course for the Bachelor of Health Administration. Discusses reading and research in the areas of health care, as well as investigation of administrative situations in health care settings. Prerequisites: most courses before practicum. Capstone course.

HLAD470 Independent Study: . . . (1-8).  
Individual reading, research, and/or project in health administration under the supervision of the faculty. Prerequisite: Permission.

HLAD480 Internship: . . . (1-8).  
Designed to provide health administration students with supervised practical experiences in applied settings. Prerequisite: Permission.

HLAD490 Health Administration Practicum (3).  
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. Prerequisites: Permission of instructor at least three months in advance and completion of all required courses.

HLAD503 Human Resource Management for Health Administration: . . . (3).  
Focuses on human resource management, program and policies. Addresses recruitment of health professionals, manpower requirements, staffing, training and development and governmental staffing regulation for health care organizations. Examines methods of developing leadership in supervisory health managers, issues of compensation administration, and specific labor and HRM law governing health care institutions. This course is also structured to prepare students for the long-term care administrators' licensing exam. Prerequisites: HLAD325 and MGMT301.

HLAD520 Introduction to Long-Term Care (3).  
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.

HLAD525 Nursing Home Administration (3).  
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.

HLAD530 Ambulatory Care System Management (3).  
Provides technical knowledge to organize, direct, coordinate, plan, and control ambulatory care programs. Focuses on medical group management. Prerequisites: HLAD325 and MGMT301.

HLAD630 Health Administration: Lecture Series (3).  
Health practitioners discuss many of the issues and problems of the contemporary American health care 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. Prerequisite: Health Administration students or permission. Auditors are encouraged and welcome.

HLAD701 Medical Care in Society: Ethics, Health, and Leadership (3).  
Overview of the field focusing on the social, behavioral, and ethical aspects of the health system. Covers such topics as epidemiology, health, and illness, the sick role, the utilization of health services, and the determinant of health. The course will focus on emerging trends in health administration, such as the need to understand the ethical implications of resource issues and the requirement of acquiring leadership skills to help reform the health care system from within. This should be one of the first courses taken by students in the program.
HLAD705 Applied Research Methods for Health Administration (3).
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. Prerequisite: STAT468; Corequisite: HLAD701.

HLAD710 Health Care Organization: Problems and Policies (3).
Reviews and analyzes the structure of U.S. health care services and delivery in terms of health and health services, organization of health service care, health care facilities, manpower, financing, expenditure, government programs, coordination regulation, and a new integrated system. Corequisite: HLAD701.

HLAD715 Economics of Health Administration (3).
Application of basic economic tools of analysis to the study and solution of health care delivery problems. Prerequisite: ECON301 or competency in basic economic concepts.

HLAD718 Health Care Policy (3).
Enables the student to describe, analyze, evaluate, and apply basic policy approaches to both American and international health care issues. Presents students with implementation skills for ethically managing power relations in a turbulent health care marketplace. Prerequisites: POLS301 or a course in social science or policy analysis Corequisite: HLAD701.

HLAD740 Health Care Financial Management I (3).
Provides an overview of the primary facets of health care financial management. Includes such topics as capital finance, working capital management, intermediate reimbursement theory, financing indigent care, and cost containment. Prerequisites: ACCT402 and HLAD701.

HLAD745 Organizational Theories in Health Administration (3).
Studies organizational and managerial theories relevant and unique to effective administration of health care institutions. Organization is perceived as an open system that requires constant interaction with environment. Prerequisites: MGMT301 or a course in principles of management. Corequisite: HLAD701.

HLAD755 Health Care Management I (3).
Presents the principle concepts of health care management. Addresses the historical evolution of the community health care institution and examines how the history and evolution of the community health care institution is interwoven into the current trends in health care administration. Quality assurance and organized delivery systems are addressed. Class discussion and case studies are used. Students will also learn how to analyze a health care entity or department. Prerequisite: MGMT301 and HLAD745.

HLAD806 Quantitative Decision-Making for Health Administration (3).
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. Prerequisite: MIS725.

HLAD820 Health Care Program Planning and Evaluation (3).
Study of specific topics in evaluating health care programs. Special attention to the concept of program, program planning, analysis of evaluation system models, measurement, causality, advantages and disadvantages of internal and external evaluation, and analysis and critique of published evaluations. Prerequisite: HLAD725.

HLAD823 Total Quality Management/Continuous Quality Improvement (3).
Presents the principal concepts of health care quality management through readings, case studies, and analysis of actual institutional quality programs. The course addresses the topics of quality assurance, total quality management, continuous quality improvement, JACHO accreditation standards, and patient satisfaction among other. The course includes a project documenting the quality program of a specific health care institution. Prerequisite: HLAD755.

HLAD835 Health Care Human Resource Management (3).
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 health care institutions. Applies TQM and ethics theories to the HRM process. Prerequisite: HLAD755.
HIADS46 Health Care: Financial Management II (3).
Focuses on theory and applications for such topics as capital financing, managed care contracting, internal audit and control issues, tax status, and performance reporting and analysis for specific health care entities. Prerequisite: HLAD740.

HIADS50 Strategic Planning and Marketing for Health Administration (3).
Covers the strategic planning process in the competitive health care field, including alternative delivery systems. Focuses on definition of mission, external analysis, goal achievement, and generation of alternatives and their selection. Marketing of specific health care entities, theories and practices are discussed. Prerequisites: HLAD806 and HLAD820.

HIADS55 Health Administration Field Experience (5).
Capstone course in the master of Health Administration degree. Focuses on the effective administration of health care 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. Case studies are used. Students also prepare a mini care plan from the health care setting. Prerequisites: HLAD823, HLAD835, HLAD837, HLAD846, and HLAD850.

HIADS65 Health Administration Field Experience (5).
Students apply theories and principles of classroom learning in health care facility. The field experiences provide opportunities for development, integration, and reinforcement of competence. The student will be required to attend six or more seminars held throughout the trimester to integrate program objectives and the field experience topic. Prerequisites: Permission of instructor at least three months in advance. Co- or Prerequisite: HLAD855.

HLAD820 Graduate Thesis/Project: . . . (1-8).
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. Prerequisite: Permission of advisor and instructor.

Health Professions Education

HLPE315 Health Professions Education Instruction (3).
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. Prerequisite: Nursing majors or permission.

HLPE620 Current Trends and Issues in Health (3).
Explores current trends and issues in health education. Focuses upon present and projected educational policy issues affecting educational institutions.

HLPE630 Special Issues in Community Health (3).
Emphasizes organizational patterns and functions of voluntary and government health agencies. Details role of the school health team in the analysis of community health programs in the greater Chicago area.

HLPE802 School Health Programs (3).
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. Prerequisite: Students must be certified teachers or have permission of the instructor.

HLPE815 Assessment of Health Instruction (3).
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. Prerequisite: Permission of instructor.

HLPE820 Continuing Education in Health (3).
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. Prerequisite: Graduate student status.
Health Sciences

HLSC305 Contemporary Health Issues (3).
Offered in televised format only. 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. National leaders representing a range of thought and documentary film footage are utilized.

HLSC470 Independent Study: . . . (1-8).
Individual reading, research, and/or project in the health sciences under the supervision of the faculty. Prerequisite: Permission.

HLSC480 Internship: . . . (1-8).
Designed to provide students in the health sciences with supervised practical experiences in applied settings. Prerequisite: Permission.

HLSC60A Health Risk Appraisal (1).
Workshop designed to offer an in-depth review of the psychosocial factors influencing personal wellness. Students will be introduced to strategies and techniques employed in health risk appraisals. A comprehensive, computerized wellness inventory will be employed in the assessment of personal lifestyle factors associated with health risks.

HLSC600 Health Promotion (3).
Offered as a correspondence course only. Explores the factors influencing our current concepts of health and wellness. Examines new developments in maintaining optimal levels of wellness in society. Focuses upon health promotion programs in business and industry designed to reduce health risk.

HLSC610 Nutrition (3).
Offered in both lecture and televised formats. Provides knowledge necessary for nutrition and diet therapy. Discusses cultural, economic, and social factors of food habits.

HLSC62B Managing Health Behavior (3).
Offered as a correspondence course only. Examines the relationship between personal lifestyle factors that contribute to health risks and the development of disease. Addresses behavioral change models and intervention strategies that facilitate disease risk reduction and promote healthful lifestyles. Computerized assessment tools will be used to evaluate personal lifestyle factors.

HLSC750 Pathophysiology (3).
Analysis of the mechanistic and regulatory deficits in altered physiological states is discussed. Emphasis is on cellular events as they relate to various pathologic conditions and their multisystem effects in varied diseased states. Prerequisites: Undergraduate work in anatomy and physiology (i.e., BIOL444-447).

HLSC830 Epidemiology (3).
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. Prerequisite: Students must meet the qualification for graduate student status.

HLSC870 Independent Study: . . . (1-8).
Individual reading, research, and/or project in the health sciences under the supervision of the faculty. Prerequisite: Permission.

HLSC880 Internship: . . . (1-8).
Designed to provide the health sciences student with supervised practical experiences in applied settings. Prerequisite: Permission.

HLSC890 Graduate Thesis/Project: . . . (1-8).
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. Prerequisite: Permission of advisor.

History

HIST310 American Economic History (3).
A historical examination of 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. Prerequisite: American History I and II.

HIST311 U.S. History I (3).
Provides a historical examination of the United States from the founding of the colonies through the Civil War with special emphasis on religion, nation building, economic development and modernization, and the sectional conflict.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST312</td>
<td>U.S. History II (3). Provides a historical examination of the United States from the Civil War through World War II with special emphasis on industrialization, immigration, urbanization, reform, and World War I and II.</td>
</tr>
<tr>
<td>HIST470</td>
<td>Independent Study: . . . (1-4). Individual reading, research, and/or project in history under the supervision of the faculty. Prerequisite: Permission.</td>
</tr>
<tr>
<td>HIST50C</td>
<td>Beyond the Dream: Current Black Social Issues (1) P/NC. Experts present in workshop format material relating to issues in education, politics, business, economics, social life, and the arts as they relate to recent developments in the black community.</td>
</tr>
<tr>
<td>HIST501</td>
<td>The History of Illinois and Its Constitution (3). Offered in both lecture format and as a correspondence course. A survey of the political, constitutional, and social history of the state of Illinois from 1700 to the present.</td>
</tr>
<tr>
<td>HIST505</td>
<td>Modern African History (3). This course will survey 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.</td>
</tr>
<tr>
<td>HIST510</td>
<td>Ascent of Man (3). Based on an award winning BBC television series written and narrated by the late scientist Jacob Bronowski. Provides a panoramic view of nature and the focus that led to the emergence of human intelligence with its cultural and intellectual achievement.</td>
</tr>
<tr>
<td>HIST515</td>
<td>Modern U.S. History: 1900-1945 (3). 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.</td>
</tr>
<tr>
<td>HIST516</td>
<td>Issues in Modern U.S. History: . . . (3). 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. Prerequisite: HIST310 or HIST311.</td>
</tr>
<tr>
<td>HIST520</td>
<td>American Urban History (3). Presents a historical examination of the process of modernization and its effect on the American city and people. Emphasizes migration and mobility, family roles, machine politics, and various reform movements.</td>
</tr>
<tr>
<td>HIST525</td>
<td>Readings in American History: . . . (3). 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.</td>
</tr>
<tr>
<td>HIST538</td>
<td>Modern Middle Eastern History (3). Examines Islamic civilization since the age of European expansion, imperialism, westernization, nationalism, and modernization; covers Arab countries and Israel, Iran, and Turkey.</td>
</tr>
<tr>
<td>HIST534</td>
<td>Modern Chinese History (3). Offered in both lecture and televised formats. Study of general development of Chinese history with special emphasis on the period since 1840. Student will conduct two individual research projects; one of the imperial past up to the end of the Ming Dynasty, and the other on the modern period.</td>
</tr>
<tr>
<td>HIST540</td>
<td>Black Experience in the U.S. (3). 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.</td>
</tr>
<tr>
<td>HIST541</td>
<td>Black Women in American History (3). A socio-historical study of the black woman from slavery to 1970. An examination of the role she has played in the black struggle and her contributions to their survival.</td>
</tr>
<tr>
<td>HIST542</td>
<td>Caribbean History (3). Studies comparative colonial patterns in the Caribbean. Emphasizes the development of slave populations, social systems, and the concept of hierarchy in the Caribbean.</td>
</tr>
<tr>
<td>HIST544</td>
<td>History of Civil Rights (3). 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.</td>
</tr>
<tr>
<td>HIST545</td>
<td>American Negro Slavery (3). A general survey of the traditional interpretations of black slavery in America and an attempt to assess them in the light of recent studies.</td>
</tr>
<tr>
<td>HIST547</td>
<td>Latin American History (3). Surveys the major periods in Latin American history. Describes and analyzes the major economic, political, social, and cultural structures of pre-Columbian, colonial, and modern Latin America.</td>
</tr>
<tr>
<td>HIST550</td>
<td>Women in American History (3). Offered in both lecture format and as a correspondence course. 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.</td>
</tr>
</tbody>
</table>
HIST565 Europe in the Twentieth Century (3).
Examines the political, economic, social, cultural, and
diplomatic history of Europe in the twentieth century.
Addresses the themes of industrialization, nationalism,
colonialism, totalitarianism, the post-World War
II division of Europe, and the geo-political trends
toward unification.

HIST720 Philosophy of History (3).
Deals with patterns in the history of mankind.
Explores nature of historical change, value, purpose,
and meaning of various historical phases.

HIST780 Local History: Resources and Methods
(3).
An examination of basic resources and methods for
local and community history. Students will be
involved with specific research projects.

HIST830 Graduate Seminar in Historical Studies
(3).
Examines the nature of history by reading and
evaluating two or more designated works on selected
topics in American history.

HIST840 Research in African-American History
(3).
Addresses serious research upon significant topics
and issues related to the black experience in the
United States and Western hemisphere.

HIST870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in
history under the supervision of the faculty. Prerequisite:
Permission.

Human Performance and Training

HP&T510 Introduction to Human Performance
and Training (1).
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
and attending a local meeting of a professional
association related to the field.

HP&T520 Training Product Design (3).
Students design, produce, and evaluate a half-hour
instructional product. Includes goal analysis, learner
entry characteristics, behavioral objectives, criterion-
referred tests, instructional strategy, media
selection, prototype production, prototype tryout, and
revision.

HP&T755 Computer Based Training I (3).
Enables student to analyze the components of a
Computer Based Training (CBT) system; write CBT
storyboards and flowcharts, and program a short CBT
lesson. Includes broad exposure to theories and
models of computer-based training. Prerequisite:
HP&T520.

HP&T760 Computer Based Training II (3).
Enables students to design complex CBT courses
using current ideas from psychology and instruc-
tional design. Also covers implementing CBT in
organizations, choosing authoring systems and
environments, and estimating CBT costs. Prerequi-
site: HP&T755.

HP&T761 Advanced Interactive Instruction (3).
Enables students to propose advanced interactive
instructional solutions to human performance and
training problems. Includes interactive hypertext,
interactive multimedia, and expert instructional/
performance systems. Prerequisites: HP&T755 and
HP&T 760.

HP&T810 Training Course Development (3).
Enables students to develop specifications for a
complete training course, including all components
from HP&T320 plus needs analysis, environmental
analysis, detailed job/task analysis, concept elabora-
tion, learning hierarchies, enabling objectives,
course, unit, and lesson maps, events of instruction,
and implementation plan. Prerequisite: HP&T520.

HP&T815 Training Techniques (3).
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.

HP&T820 Principles of Message Design (3).
Applies principles of message design to instructional
strategies, media selection, and materials speci-
fications. Emphasizes perception, memory, attitude
change, adult learning, and text design. Prerequisites:
HP&T510 and HP&T520.

HP&T821 Scriptwriting for Instruction and
Training (3).
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. Prerequisites:
HP&T520, HP&T820, and either HP&T810 or
HP&T815.

HP&T825 Research in Human Performance and
Training (3).
This course will enable students to research and
evaluate topics in instructional and training technol-
ogy. Prerequisite: eighteen credit-hours in HP&T:
HP&T 847 Evaluation/Cost Benefit Analysis in Human Performance and Training (3).
Focuses on evaluation of a training product, course, or other intervention. Includes formative and summative evaluation and cost benefit analysis. On basis of evaluation data, students prepare report, calculate cost benefit, and suggest revisions to a course, product, or intervention. Prerequisite: HP&T 810.

HP&T 852 Solving Performance Problems (3).
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. Prerequisite: HP&T 810.

HP&T 856 Consulting Teamwork in Human Performance and Training (3).
Students work as a member of an instructional development team to develop and evaluate a training package. Includes working closely with subject matter experts. Prerequisite: HP&T 810.

HP&T 858 Project Management in Human Performance and Training (3).
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. Prerequisite: HP&T 810.

HP&T 860 Seminar: Human Performance and Training in Business (1).
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. Prerequisites: At least three HP&T courses.

HP&T 861 Performance in Organizations (3)
This course provides a practical framework for understanding how components in an organization interrelate and how that relation affects performance analysis and improvement. Prerequisite: Eighteen credit hours in HP&T.

HP&T 865 Advanced Field Project (1).
Provides Human Performance and Training students with opportunities to apply specific career skills/interests in a business, industrial, medical, or educational setting. Prerequisites: Minimum nine graduate hours in HP&T and permission.

HP&T 870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in Human Performance and Training under the supervision of the faculty. Prerequisite: Permission.

HP&T 880 Internship: . . . (1-4).
Designed to provide Human Performance and Training students with supervised practical experiences in applied settings. Prerequisite: Permission.

HP&T 891 Human Performance and Training Masters Project I (2).
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. Prerequisites: At least twenty-five graduate hours in HP&T.

HP&T 892 Human Performance and Training Masters Project II (2).
Further development of synthesis and application of methods begun in HP&T 891. Prerequisite: HP&T 891 or concurrent enrollment.

Intercultural Studies

ICS 320 Dynamics of the Spanish Language (3).
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.

ICS 530 Third World Conference (1-3) P/NC.
Weekend conference using workshops and seminars to focus on socio-political, humanistic, and historical policy problems and issues of third world communities in national, interregional, and international contexts.

ICS 532 African Politics (3).
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.

ICS 540 Hispanic Experience in U.S. (3).
Offered as a correspondence course only. Examines the historical process that led to Latino migration to the United States. Focuses on the economic, political, social, and cultural conditions that shape the life of the Latino in American society.

ICS 541 Ethnicity, Culture, and Politics (3).
Offered as a correspondence course only. Explores the interrelations between 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.

ICS 547 Cultural Geography (3).
Includes a discussion of the nature of culture and surveys the main distribution of the populations of the human race and their broad distinguishing characteristics and cultures. Traces the global movement of populations together with the movement of their cultural influences among other peoples and cultures.
LAS410 Investigations in the Social Sciences (3).
Offered in both lecture and televised formats and as a correspondence course. 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.

ICS55A Topics in Geography: World History and Geography (3).
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).

Liberal Arts and Sciences

LAS410 Investigations in the Social Sciences (3).
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. Prerequisites: Nine hours of course work in social science.

LAS420 Investigations in the Humanities (3).
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. Prerequisite: Nine hours of course work in art, music, and/or literature.

LAS430 Investigations in Scientific Thought (3).
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. Prerequisites: Nine hours of course work in science and six hours of course work in mathematics.

LAS440 Investigations in Mathematical Thought (3).
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. Prerequisites: Nine hours of course work in science and six hours of course work in mathematics.

Management

MGMT301 Introduction to Management Strategies (3).
Offered in both lecture and televised formats. Introduces classical management, behavioral, and management science. Reviews the fundamental functions of management emphasizing the interrelationships among planning, organizing, directing, and controlling. Both the impact of organizations upon participants and the impact of participants upon organizations are studied. Examines systems approach to solving operational problems.

MGMT320 Human Resource Management (3).
Acquaints the student with concepts and techniques of the personnel process. Emphasizes ways to increase organizational group and personal effectiveness, as well as enhancing the quality of organizational life and to using the human resources available. Prerequisite: MGMT301.

MGMT340 Production Management (3).
Offered in both lecture and televised formats. Discusses applications of management science and analysis to the production function. Emphasizes operations management as it relates to product development, plant location and layout, production cost analysis, work measurement, work simplification, safety management, and quality control. Prerequisite: STAT361.

MGMT342 Job Design and Measurement (3).
Prerequisites: Nine hours of course work in science and six hours of course work in mathematics. Introduces classical management, behavioral, and management science. Reviews the fundamental functions of management emphasizing the interrelationships among planning, organizing, directing, and controlling. Both the impact of organizations upon participants and the impact of participants upon organizations are studied. Examines systems approach to solving operational problems.

MGMT340 and STAT362.

MGMT360 Business Communications (3).
Prerequisites: Nine hours of course work in science and six hours of course work in mathematics. Introduces classical management, behavioral, and management science. Reviews the fundamental functions of management emphasizing the interrelationships among planning, organizing, directing, and controlling. Both the impact of organizations upon participants and the impact of participants upon organizations are studied. Examines systems approach to solving operational problems.

MGMT340 and STAT362.

MGMT401 Organizational Behavior (3).
Offered both 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, Introduction to Management Strategies. Prerequisite: MGMT301.
MGMT402 Honors Seminar (3).
In this seminar, students will work together on a sequence of projects related to their current education and future careers. They will study the systems approach as an integrating method and will practice decision making and problem solving. The seminar will utilize readings, activities, discussions, and projects and will encourage critical thinking through class discussions and critical thinking and writing fluency through personal journals.

MGMT410 International Business (3).
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. Prerequisite: MGMT301 or permission of instructor.

MGMT421 Labor Relations (3).
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 personnel 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. Prerequisite: MGMT301.

MGMT422 Behavioral Research in Business (3).
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. Prerequisite: STAT361.

MGMT423 Compensation and Incentive Systems (3).
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. Prerequisite: MGMT320.

MGMT425 Labor Markets (3).
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. Prerequisites: ECON301 and ECON302.

MGMT426 Personnel Training and Management Development (3).
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. Prerequisite: MGMT301.

MGMT430 Small Business Administration (3).
Focuses on understanding the principles and techniques of management in relation to a small business. Studies fundamental aspects of the managerial process, including planning, organizing, staffing, directing, and controlling. Studies marketing, finance, and computers as they relate to small business. Prerequisite: MGMT301 or permission of instructor.

MGMT432 Quality Management (3).
Provides an introduction to the economic and management aspects of quality control of products and processes. Statistical concepts and tools related to the design and implementation of acceptance sampling plans and control charts for statistical process control will be discussed. Topics covered include control charts for variables (x- and r-charts), control charts for attributes (p- and c-charts), operating characteristic (OC) curves, producer and consumer risks, lot tolerance percent defective, acceptance quality level, quality circles, quality assurance, etc. Prerequisite: MGMT301; a course in statistics would be helpful.

MGMT442 Materials and Logistics Management (3).
Focuses on purchasing, operations, and transportation/physical distribution management functions. Prerequisite: MGMT340.

MGMT443 Production and Inventory Control Systems (3).
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. Prerequisite: MGMT340.

MGMT445 Seminar in Production and Operations Management (3).
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. Prerequisite: MGMT340.

MGMT469 Business Policy (3).
This capstone course of the B.A. in Business Administration is designed to integrate the various functional areas of business administration through case discussion that applies management, finance, production, marketing, economics, and accounting principles to solving business problems. Prerequisite: Last course in undergraduate program; open to degree-seeking CBPA students only.
MGMT470 Independent Study: ... (3).
Independent study is intended to provide better students the 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 within management and an instructor to sponsor the work. **Prerequisites:** Permission of instructor and dean.

MGMT480 Internship: ... (3).
Designed to provide management students with supervised practical experiences in applied settings. **Prerequisite:** Permission of instructor and dean.

MGMT510 Foundations of Managerial Statistics (3).
Provides the graduate student with sufficient statistical background for the M.B.A. Includes descriptive statistics, sampling procedures, interval estimation, significance testing, correlation, regression, and the analysis of variance. The course is fast-paced and intensive. Students desiring a more leisurely introduction to the subject should take Statistics for Management I and II. **Prerequisite:** MATH325.

MGMT511 Statistical Data Processing for Business (3).
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 fifty percent of course time will be devoted to computer applications. **Prerequisites:** STAT362, MGMT510, or permission.

MGMT515 Administration of Non-Profit Organizations (3).
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. **Prerequisite:** MGMT301 or permission of instructor.

MGMT520 Managing Automated Office Systems (3).
Applies principles of management and organization to automated (electronic) offices. Addresses the effects of integrated office systems on the organizational structure, basic office functions, the employees, and physical environment of the office. **Prerequisites:** MIS370 and MGMT301.

MGMT540 Business Ethics and Social Responsibility (3).
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. **Prerequisite:** MGMT301 or permission.

MGMT560 Advanced Business Communications (3).
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. **Prerequisite:** MGMT360 or equivalent.

MGMT810 Problems in Organizational Behavior (3).
Study of the development of organizational theory and critical examination of its value for explaining organizational change and phenomena. **Prerequisite:** MGMT301 or PADM301.

MGMT816 Production Problems and Analysis (3).
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. **Prerequisite:** MGMT340 or permission.

MGMT820 Problems in Human Resource Management (3).
Includes exploration of the various theories of personality development and motivation. Examines factors both internal and external to the organization and their influence on personnel planning. Deals with current issues and research in the area of personnel management. **Prerequisite:** MGMT320.

MGMT823 Problems in Business Ethics (3).
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. **Prerequisite:** MGMT301.

MGMT825 Problems in Industrial Relations (3).
Deals with problems arising from employer-labor relationship. Studies theories of work, problems in organization, manpower management, and industrial relations research. **Prerequisite:** MGMT320 or MGMT810.

MGMT830 International Management (3).
Study of complexity of the problems of international management. Deals with organizational structure, technology, behavioral systems, institutional differences, and future of international management. **Prerequisite:** MGMT301 or permission.
MGMT840 Problems in Production Management (3).
Includes the study of analytical methods in production and design of production systems. Emphasizes the major economic problems of production management, mathematical programming, statistical analysis, inventory analysis, and certainty models. Prerequisites: MGMT301 and STAT362.

MGMT845 Small Business Management (3).
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. Prerequisites: MGMT430 or graduate standing and instructor's permission.

MGMT849 Business Policy and Strategy (3).
Capstone course of the master of Business Administration degree designed to integrate the various operating functions of a business. 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. Prerequisite: Last trimester of student's program; open to degree-seeking CBPA students only.

MGMT850 Business Instructional Internship (3).
Designed to provide vocational education teachers the opportunity to study modern business and industrial practices through a supervised experience in the private sector. Prerequisite: Occupational and vocational education teachers.

MGMT851 Innovative Methods in Occupational Programs (3).
Explores current research and teaching practices relating to the development and classroom use of individualized instruction, large-group and small-group methods, audio-visual techniques, games, and other modes of innovative instruction in business education. Assesses value and relevance of innovative methods in vocational education.

MGMT852 Organization and Administration of Cooperative Occupational Programs (3).
This is the first of two courses required for high school teacher-coordinators to be certified with the Illinois State Vocational Education Department. Deals with designing and implementing a total cooperative education program, including curricula. Discusses vocational education laws, identifying and securing training sites, preparing an effective training plan, and implementing effective public relations.

MGMT853 Coordinating Techniques of Cooperative Vocational Education Programs (3).
This is the second of two courses required for high school teacher-coordinators to be certified with the Illinois State Vocational Education Department. Focuses on the development of program policy, functioning with school and community personnel, and recruitment and selection of students. Also includes location and development of training stations, placement of students, and legal considerations and related instructions.

MGMT854 Vocational Planning for Special Needs Population (3).
Emphasizes employment opportunities, community agencies, legal aspects, and academic areas that are significant in the life of the mentally handicapped individual within the community.

MGMT855 Leadership Dynamics (3).
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 with in class case analyses and group exercises. Prerequisite: MGMT301.

MGMT860 Issues in Public and Private Management (3).
An advanced study of organizational issues such as leadership and organizational change. Students apply the ideas to public or private organizations. Prerequisite: MGMT810.

MGMT870 Independent Study: . . . (3).
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 and an instructor to sponsor the work. Prerequisites: Permission of instructor and dean.

MGMT880 Internship: . . . (3).
Designed to provide management students with supervised experiences in applied settings. Prerequisite: Permission of instructor and dean.

MGMT890 Graduate Thesis/Project: . . . (6) P/NC.
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. Prerequisites: Permission; last trimester of M.B.A. student's program of study.
Management Information Systems

MIS301 Introduction to Management Information Systems (3).
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, and graphics software. Includes introduction to and use of BASIC computer programming language in business related problems.

MIS310 Word Processing Applications: ... (1).
Provides information on applications of word processing packages. See schedule for specific package covered. Credits earned in this course may not be applied toward degree requirements of the undergraduate majors in Business Administration, Business Technology, Computer Sciences, Criminal Justice, Office Administration, and Public Administration. Prerequisite: Familiarity with DOS on IBM microcomputers and/or PC compatibles.

MIS320 Spreadsheet Applications: ... (1).
Provides information on applications of spreadsheet packages. See schedule for specific package covered. Credits earned in this course may not be applied toward degree requirements of the undergraduate majors in Business Administration, Business Technology, Computer Science, Criminal Justice, Office Administration, and Public Administration. Prerequisite: Familiarity with DOS on IBM microcomputers and/or PC compatibles.

MIS330 Database Applications: ... (1).
Provides information on database management packages. See schedule for specific package covered. Credits earned in this course may not be applied toward degree requirements of the undergraduate majors in Business Administration, Business Technology, Computer Science, Criminal Justice, Office Administration, and Public Administration. Prerequisite: Familiarity with DOS on IBM microcomputers and/or PC compatibles.

MIS370 Business Microcomputer Applications (3).
Provides an overview of business data processing and management information systems. Covers introductory concepts of systems analysis techniques, nature of computer applications in business, problem solving, and discusses the future of computer technology. Includes an introduction to and use of database software in business related problems, and the integrations of applications software. Prerequisite: MIS301 or computer literacy and graduate standing.

MIS401 Prototyping and Business Systems Development (3).
Introduction to systems prototyping, a method for extracting, presenting, and refining a business user's needs by building a working model with the help of software tools. Prerequisite: MIS301.

MIS410 Software Evaluation (3).
Deals with methodologies and strategies for the review and evaluation of selected applications packages. Emphasizes the procedures to evaluate packages and the related costs and efficiencies in the business context. Prerequisite: MIS370.

MIS420 Business Information Retrieval and Database Management (3).
Introduction to the management of database systems. Management problem solving will be related to the output of the 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 advantage. This course will cut across functional management lines and show a relationship between the external and internal environment and the business firm. Prerequisite: STAT362 and MIS370 or MIS401.

MIS430 Business Simulation and Modeling (3).
Introduction to the uses of computers and microcomputers in creating models of business systems and simulations of business system outcomes. Covers the place of management gaming and the development of heuristic models. Introduces use of simulation languages, such as GPSS or SIMAN. Prerequisites: STAT362 and MIS301.

MIS440 Telecommunications and Distributed Data Systems (3).
Discussion of the fundamental terminology and operations of a data communication network, including interactive systems, distributed data processing, word processing, and local area networks. Prerequisites: MIS401 and MIS420.

MIS460 Introduction to Management Sciences (3).
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. Prerequisite: STAT362.

MIS480 Internship: ... (3).
Designed to provide the management information systems student with supervised practical experiences in applied settings. Prerequisite: Permission.

MIS515 Forecasting Techniques (3).
Presents modern forecasting methods, including horizontal, trend, quadratic, adaptive smoothing, trigonometric and seasonal forecasting models, adaptive control, and Box-Jenkins models. Examines forecast errors and tracking models and uses and abuses of forecasting. Prerequisite: STAT362 or MGMT510.
MIS725 Management Information Systems for Health Administration (3).
Investigates the current status of MIS in health administration. Prepares students for the computer assisted management process of the future. Includes microcomputer applications for administrators, systems analysis and design, and computer selection strategies. Knowledge of basic computer science is desirable. Prerequisite: Computer literacy. HLAD705 and HLAD710.

MIS830 Problems in Management Information Systems (3).
Studies the application of the computer to managing the information system of organizations. Examines information requirements and systems and use of the information structure as a basis for the most effective use of the computer. Prerequisite: MIS301.

MIS880 Internship: . . . (3).
Designed to provide the management information systems student with supervised practical experiences in applied settings. Prerequisite: Permission.

Marketing

MKTG301 Introduction to Marketing Management (3).
Introduces the managerial approach to marketing. Includes study of markets, institutions, and the environment in which business and non-business enterprises operate. Emphasizes marketing decision process regarding the marketing mix, marketing program, and selected applications. Prerequisite: ECON301.

MKTG320 Consumer Behavior (3).
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. Prerequisite: MKTG301.

MKTG430 Managing Market Strategies (3).
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, and after-product pricing, and psychological considerations in retail pricing. Lectures are supplemented by problems, cases, and/or a simulation exercise. Prerequisite: MKTG301.

MKTG440 Marketing Logistics and Distribution (3).
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. Prerequisites: STAT361 and MKTG301.

MKTG450 Promotional Strategies (3).
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. Prerequisite: MKTG301.

MKTG460 Marketing Research (3).
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. Prerequisites: MKTG301 and STAT361.

MKTG470 Independent Study: . . . (3).
Independent study is intended to provide better students 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. Prerequisites: Permission of instructor and dean.

MKTG480 Internship: . . . (3).
Designed to provide marketing students with supervised practical experiences in applied settings. Prerequisite: Permission.

MKTG570 Sales Organizations (3).
Concerned with the design, development, and analysis of sales organizations, sales department relations, personnel management in the selling field, sales budgets, and cost analysis and their impact on the sales organization, and sales territories and quotas. Includes the role of the sales executive in coordinating and controlling the marketing mix. Considers current issues related to sales organizations. Prerequisite: MKTG301.
MKTG820 International Marketing (3).
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. Prerequisite: MKTG801.

MKTG870 Independent Study: . . . (3).
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. Prerequisite: Permission of instructor and dean.

MKTG880 Internship: . . . (3).
Designed to provide marketing students with supervised, practical experiences in applied settings. Prerequisite: Permission.

MKTG890 Graduate Thesis/Project: . . . (3) P/NC.
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. Prerequisites: Permission; last trimester of M.B.A. student’s program of study.

Mathematics

MATH320 Mathematical Structures and Concepts I (3).
An introductory, content-oriented mathematics course, including problem solving, sets, numeration systems, integers, rational numbers, ratios, and proportions. Prerequisite: Satisfactory completion of the university basic mathematics proficiency examination.

MATH322 Mathematical Structures and Concepts II (3).
Topics include informal logic, problem solving, informal geometry, transformation geometry, tessellations, measurement, probability, and statistics. Prerequisite: MATH320.

MATH325 College Algebra (3).
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. Prerequisite: Intermediate algebra or satisfactory completion of the university basic mathematics proficiency examination.

MATH330 Geometry (3).
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. Prerequisites: High school geometry, MATH320, and MATH325.
MATH340 Discrete Mathematics (3).
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. **Prerequisite:** MATH320 or MATH325.

MATH355 Applied Calculus (3).
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. **Prerequisite:** MATH325 or satisfactory completion of the university basic mathematics proficiency examination.

MATH360 Theory of the Calculus of One Variable (3).
Second course in calculus, emphasizing the theoretical foundations of the differential and integral calculus of a single independent variable. Topics include graphs and functions; limits, continuity, and the derivative; techniques of differentiation; applications of derivatives and antiderivatives; the integral and its applications; natural logarithm and exponential functions; hyperbolic and circular trigonometric functions; conic sections and polar coordinates; techniques of integration; L'Hospital's rule; Taylor series; introduction to ordinary differential equations. **Prerequisite:** MATH355.

MATH365 Multivariable Calculus (3).
Third course in calculus, with emphasis on the differential and integral calculus of several independent variables. Topics include vectors; vector-valued functions, curves and surfaces, functions of several variables, partial differentiation, multiple integration, vector analysis, and introduction to differential forms, Taylor series for several variables, introduction to partial differential equations. **Prerequisite:** MATH360.

MATH440 Linear Algebra (3).
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. **Prerequisite:** MATH355.

MATH450 Principles of Operations Research (3).
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. **Prerequisites:** MATH340, MATH355, and STAT521.

MATH455 Differential Equations (3).
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. **Prerequisite:** MATH355; MATH440 is recommended.

MATH470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in mathematics under the supervision of the faculty. **Prerequisite:** Permission.

MATH870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in mathematics under the supervision of the faculty. **Prerequisite:** Permission. Consult schedule for terms offered.

**Media Communications**

MCOM420 Media and Society (3).
Surveys the development and influence of the mass media, including print, broadcasting, and film. Examines psychological, social, cultural, political, and economic impact of media.

MCOM440 Television Production (4).
Presents fundamental production techniques in color studio. Students design, write, and produce basic formats increasing in complexity; crew all positions, including camera, lighting, audio, video switcher; and demonstrate creative ability.

MCOM450 Writing for Print Media (3).
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.

MCOM470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in media communications under the supervision of the faculty. **Prerequisite:** Permission.

MCOM480 Internship: . . . (1-4).
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 Communications Services Center. May be repeated. **Prerequisites:** Prior production courses in area of work and permission.
MCOM490 Senior Project (3).
A capstone course that integrates a student's undergraduate experience. Involves a culminating project for MCOM sequence students. This course should be taken in the last semester or two of undergraduate study. Prerequisites: COMS310, COMS420, and MCOM420.

MCOM505 Media Symposium: . . . (1) P/NC.
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.

MCOM510 Theory and History of a Free Press (3).

MCOM511 Communications Ethics (3).
Examines the principles of personal, public, and media ethics. Historical and contemporary approaches to ethical behavior are explored. Current issues serve as a focus for class discussion and assignments.

MCOM512 Media Communications Law (3).
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, fair trial/free press.

MCOM520 Audio Production (4).
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.

MCOM522 Audio Seminar: . . . (3).
Presents selected topics in audio history, trends, production, aesthetics, and criticism. May be repeated for credit with different topics. Prerequisites: Vary with topic.

MCOM531 Writing for Radio and Television (3).
Exercises and script writing for radio and television.

MCOM532 Writing for Film/Video (3).
Advanced script writing class for students who understand terminology, production fundamentals, and creating visual sequences for film. Prerequisite: Writing class in film and television, or experience in script writing for film or television.

MCOM534 Video Production Editing (3).
Provides students with in-depth video editing in VHS and S-VHS formats.

MCOM535 Television: Remote Techniques (3).
Considers non-studio production using portable video equipment. Provides practical experience in both remote shooting and editing. Prerequisites: MCOM440, MCOM534, or permission.

MCOM539 Advanced Television Production (3).
Emphasizes sophisticated uses of production skills in color facility. Particular attention is devoted to lighting, audio, and beginning post-production. Prerequisite: MCOM440 or permission.

MCOM540 Film Seminar: . . . (3).
Presents selected topics in film aesthetics, history, and genre analyses. May be repeated for credit with different topics.

MCOM542 Film and TV Documentary (3).
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.

MCOM546 Advanced Video Editing (3).
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. Prerequisites: Basic video production (MCOM440) and basic video editing (MCOM534).

MCOM548 On-Air Performance (3).
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.

MCOM550 Newswriting and Reporting (3).
Emphasizes interviewing and research skills. Covers speeches and meetings, single and multi-source articles.

MCOM551 Introduction to Public Relations (3).
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. Prerequisite: MCOM450 or permission.

MCOM552 Public Relations Case Studies (3).
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. Prerequisite: MCOM551.

MCOM555 Broadcast Journalism (3).
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. Prerequisite: Prior media or journalism course.
MCOM560 Women in the Media (3).
Examines historical and contemporary role 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.

MCOM565 Broadcasting in America (3).
Examines the development, structure, content, context, and influences of the broadcast media.

MCOM567 Children and Television (3).
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.

MCOM570 Media Workshop: . . . (1-4).
Specific media technologies, skills, and issues are considered in a series of workshops using outside resources. Workshops may be repeated for different subjects. Prerequisites: Will vary depending upon specificity of particular workshop.

MCOM601 Creative Dramatics Workshop (1-3).
Offered in televised format only. Introduces the creative dramatics process to classroom teachers for use in many subject areas. Includes explanation, demonstration, and discussion of theater games, exercises, and other techniques that will help provide sensory experiences for children and contribute to a more humanistic approach to education. Prerequisite: Graduate standing or permission of instructor.

MCOM651 Investigative and Specialized Reporting (3).
Analyzes and applies investigative reporting approaches and techniques, emphasizing interviewing and scientific research methods. Covers several beats, including education, science, business, crime, politics, and urban affairs. Prerequisite: Prior journalism course work or experience.

MCOM660 Non-Broadcast Television Operations (3).
Provides students with experience in non-broadcast TV in corporate operations, including services provided by departments in businesses, industries, educational institutions, medical facilities, and government departments (including the military). Emphasizes the uses of non-broadcast TV for instruction, information, promotion, public relations training, employee orientations, production controls, and corporate communication. Incorporates several field trips and guest speakers to address issues.

MCOM730 Television Directing (4).
Studio-oriented course on the techniques of television directing. Focuses on television aesthetics and unique aspects of medium. Prerequisites: MCOM440, MCOM539, or permission.

MCOM740 Trends in Communications Technologies (3).
Examines the emerging communications technologies, including communications satellites; video distribution systems, including cable, instructional television fixed service, low-power television; pay television; videotext and teletext; video cassettes and discs; editing systems and other increasingly miniaturized and computerized camera and tape equipment. Focuses on the utilization of the technology and, in the case of programming as we have known it, the content available or planned and the quality of production.

MCOM750 Feature and Review Writing (3).
Advanced writing for students interested in staff or freelance careers in professional journalism. Lab work may be published and emphasizes the inter-relationship of style and content. Covers profiles, color stories, and reviews of various arts and media. Prerequisite: Prior journalism course work or experience or permission.

MCOM755 Media Management (3).
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 and changing laws and regulations.

MCOM803 Contemporary Issues: . . . (3).
A graduate seminar exploring a selected issue in media, communication, or popular culture. May be repeated for credit.

MCOM830 Graduate Seminar in Media Communications (3).
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.

MCOM870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in media communications under supervision of faculty. Prerequisite: Permission.

MCOM880 Internship: . . . (1-4).
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 Communications Services Center. May be repeated. Prerequisites: Permission and experience in medium of work.

MCOM890 Graduate Thesis/Project: . . . (1-6).
Provides the media communications student an opportunity to synthesize graduate course work by developing and completing a thesis or project specific to the student's interests in media communications. Prerequisite: Permission of advisor.
Medical Technology

MEDT310 Introduction to Clinical Laboratory Science (1).
An introduction to the profession of clinical laboratory science. Topics include history of medical technology, role definition, ethics, safety, accreditation, licensure, and certification. Prerequisite: Medical technology majors.

MEDT320 Practicum I (3).
One of a series of practicums in clinical laboratory science. Includes quality assurance, instrument maintenance, performance of basic diagnostic tests, problem solving, and test interpretation. Prerequisites: Medical technology majors and evidence of health insurance coverage.

MEDT321 Hematology I (1).
Emphasizes the function and morphological characteristics of the various cellular elements of the blood. Also covers components of the complete blood count, hematopoiesis, morphology, function, cytochemistry of the cellular components of blood tissue, and benign pathologic conditions. Prerequisite: Medical technology majors.

MEDT322 Clinical Chemistry I (3).
Provides an overview of fundamental principles of clinical chemistry techniques, mathematics, and instrumentation. Selected disease states are presented along with pertinent clinical laboratory data. Quality control procedures are explained. Prerequisites: Medical technology majors.

MEDT323 Clinical Microbiology I (2).
Emphasizes the characteristics of and diseases caused by the following organisms: gram positive cocci, gram negative cocci, gram positive bacilli, negative bacilli, acid fast bacilli, spirochetes, rickettsia, and chlamydia, Also covers the collection and handling of specimens and antibiotic susceptibility testing. Prerequisite: Medical technology majors.

MEDT330 Practicum II (3).
One of a series of practicums in clinical laboratory science procedure. Includes quality assurance, instrument maintenance, performance of diagnostic tests, problem solving, and test interpretation. Prerequisites: Medical technology majors and evidence of health insurance coverage.

MEDT331 Renal Physiology and Body Fluid Analyses (1).
Urinary tract structure, function, and pathology are presented and correlated with urine laboratory findings. Introduces urine pregnancy testing, analyses of several body fluids, and the principles of their testing. Prerequisite: MEDT321.

MEDT350 Practicum III (3).
One of a series of practica in clinical laboratory science procedure. Includes quality assurance, instrument maintenance, performance of basic diagnostic tests, problem solving, and test interpretation. Prerequisites: MEDT330 and evidence of health insurance coverage.

MEDT351 Blood Bank I (1).
An introduction to immunohematology, the blood group systems, donor procurement, and compatibility testing. Study of the immunohematological concepts and their application to the appropriate selection of blood or blood components for patient administration. Prerequisite: MEDT340.

MEDT353 Phlebotomy Techniques I (1) P/NC.
Focuses on methods for obtaining blood specimens skillfully and properly in various health area environments and emphasizes appropriate professional behavior while performing this task. Also covers blood specimen quality and associated prelaboratory and laboratory variables. Prerequisites: Medical technology majors and evidence of health insurance coverage.

MEDT410 Hematology II (2).
A continued study of the cellular elements of blood with an emphasis on the hematologic disorders of erythrocytes, leukocytes, thrombocytes, and their precursors. The anemias and leukemias are emphasized with case studies to correlate laboratory results with pathophysiology. Prerequisite: MEDT321.

MEDT420 Practicum IV (4).
One of a series of practica in clinical laboratory science procedure. Includes quality assurance, instrument maintenance, performance of diagnostic tests, problem solving, and test interpretation. Provides supervised clinical laboratory experience in a health care setting. Prerequisites: MEDT350 and evidence of health insurance coverage.

MEDT421 Hemostasis (1).
Presents the theoretical concepts of hemostasis and coagulation testing. Inherited and acquired disorders are discussed as well as the principles of anticoagulant therapy. Prerequisite: MEDT321.

MEDT423 Clinical Microbiology II (2).
Emphasis is on theoretical principles of the methods used for the isolation and identification of anaerobic bacteria and fungi. The disease patterns produced by the anaerobes and fungi groups are studied. Course also covers parasitology, serology, and virology with emphasis on the correlation of the human immune response with laboratory procedures. Prerequisite: MEDT323.
MEDT430 Practicum V (4).
One of a series of practica in clinical laboratory science procedure. Includes quality assurance, instrument maintenance, performance of diagnostic tests, problem solving, and interpretation. Provides supervised clinical laboratory experience in a health care setting. Prerequisites: MEDT420 and evidence of health insurance coverage.

MEDT432 Blood Bank II (2).
The immunohematological concepts covered in Blood Bank I will be applied to problems in compatibility testing, antibody identification, hemolytic disease of the newborn, and prenatal testing. Prerequisite: MEDT351.

MEDT433 Clinical Chemistry II (2).
Explores advanced topics in clinical chemistry. Prerequisite: MEDT322.

MEDT435 Topics in Clinical Laboratory Science Education (2).
Students will have the opportunity to develop skills in teaching didactic and clinical areas. Skills in cognitive, psychomotor, and affective evaluation will be explored. Prerequisite: Medical technology majors or permission.

MEDT440 Practicum VI: Special Project (2).
This course is the last in a series of practica that cover the skills and theory of clinical laboratory science. Students will design, participate in, and evaluate a laboratory practicum project individually tailored to each student's career interests. Prerequisites: MEDT430 and evidence of health insurance coverage.

MEDT441 Phlebotomy Techniques II (1) P/NC.
Involves practice of the basic techniques learned in Phlebotomy I and expands upon them to assess difficult venipuncture situations. Emphasizes the use of standard and specialized phlebotomy equipment and the drawing of special procedures. Prerequisites: MEDT353 and evidence of health insurance coverage.

MEDT450 Professional Issues in Clinical Laboratory Science (1).
Students will discuss and develop strategies to deal with interpersonal conflicts and explore leadership styles. Certification, employment trends, and other professional issues will be reviewed. An overview of research methods will be given. Prerequisite: Medical technology majors.

MEDT465 Laboratory Management (2).
Addresses important areas within the scope of today's clinical laboratory manager. Prerequisite: MEDT430 or permission.

MEDT466 Certification Review (1) P/NC.
A series of review classes designed to prepare the student for certification examinations in the field of clinical laboratory science. Also may be used as method for updating knowledge of current clinical laboratory practice. Prerequisite: Medical technology majors or permission.

Music

MUS303 Survey of Music History (3).
Offered in both lecture and televised formats. Designed to give students a basic grasp of the historical periods of music and to provide understanding of the types, forms, and styles of music literature. The history of music is approached in a quasi-chronological framework beginning with the common practice period, working through baroque, classical, romantic and twentieth century periods. Medieval and Renaissance periods are studied selectively.

MUS305 Basic Musicianship (3).
Covers basic theory that provides for practical application to improve music performance and listening skills. Course activities include lecture/discussion, writing of scale, intervals, key signature, triads, chords, and the playing, singing, and harmonization of simple melodies at the keyboard.

MUS311 Piano Proficiency I (2).
Focuses on functional piano skills, sight reading, harmonization, and transportation. Acquaints music education students and others with the keyboard skills necessary for classroom use.

MUS312 Piano Proficiency II (2).
Continuation of MUS311. Prerequisite: MUS311 or permission of instructor.

MUS315 18th and 19th Century Music (3).
Presents a survey of style and form of classical and romantic composers of the eighteenth and nineteenth centuries.

MUS320 20th Century Music (3).
Studies music during the early history of the twentieth century. Includes post-romanticism, impressionism, and nationalism.

MUS330 Harmonic Techniques (3).
Studies advanced harmony, including polychords, nontertial sonorities, bimodality, parallelism, cluster (sound mass technique), and other common twentieth century harmonic techniques.

MUS335 Contrapuntal Techniques (3).
Exploration of the polyphonic conception of atonality and twelve-tone technique by way of counterpoint. Prerequisite: Permission.

MUS380 Brass Methods (2).
Designed to give students both theoretical and hands-on experiences with brass instruments. Includes methods and materials for instruction and pedagogical approaches for heterogeneous and homogeneous instrumental classes. Prerequisites: Music majors selecting the teacher education sequence or permission of instructor.
MUS382 Woodwind Methods (2).
Studies techniques to teach woodwind instruments, including embouchure posture, materials, and group organization. Students will be required to play each of the instruments studied. Covers ranges, transpositions, and specific problems of teaching/learning each instrument.

MUS384 String Methods (2).
Provides both theoretical and hands-on experiences with string instruments. Emphasizes methods and materials for instruction and pedagogical approaches for heterogeneous and homogeneous instrumental classes. Prerequisites: Music majors selecting the teacher education sequence or permission of instructor.

MUS386 Percussion Methods (2).
Provides theoretical and hands-on experiences with the four major types of percussion instruments (keyboard, tuned, untuned, and auxiliary). Reviews percussion performance literature, method books, mallets, and "grip" approaches.

MUS410 African-American Music (3).
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.

MUS415 Orchestration (3).
Examines ranges and specific problems in scoring for each family of instruments, woodwinds, brass, percussion, and strings.

MUS420 Jazz Improvisation (3).
Discussion, illustration, and demonstration of various techniques used in improvising jazz. Covers different jazz styles, recordings, and transcriptions of major jazz figures. Prerequisite: MUS540.

MUS425 Jazz Pop Arranging (3).
Methodology of big band arranging. Score analysis of big band arrangers such as Oliver Nelson, Thad Jones, and Duke Ellington. Attention will be given to arranging for rhythm section and various small group instrumental combinations. Prerequisite: MUS415.

MUS445 Choral Arranging (3).
Covers principles of writing for voices. All facets of vocal writing are covered, including the techniques of writing piano and instrumental accompaniments for the voices. Proper manuscript preparation for vocal arrangements is included.

MUS452 Instrumental Arranging (3).
Provides students with techniques and skills of arranging for various instrumental combinations. Focuses on the concert band, jazz ensemble, and manuscript preparation.

MUS467 Music Methods for Elementary Teachers (3).
Covers the role of the elementary classroom teacher in the development of the elementary general music program. Includes demonstration and practice of methods and study of materials used in this process. Prerequisite: Open to music majors only.

MUS470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in music under the supervision of the faculty. Prerequisite: Permission.

MUS501 Topics in Music: . . . (1-3).
A series of presentations workshops utilizing outside resources. Considers developments, skills, new creative approaches, and issues in music. May be repeated for different subjects. Prerequisites: Specific prerequisites will vary depending on particular workshop.

MUS514 Instrumental Methods and Conducting (4).
Investigates baton technique and score reading from instrumental music. Phrasing, meter, and diagnosis are investigated.

MUS518 Choral Methods and Conducting (4).
Designed for students who may be directing either a church or high school choir. Covers vocal techniques, choral literature, rehearsal techniques, and error detection.

MUS525 History of Jazz (3).
Traces the developments of jazz from its earliest antecedents through Dixieland, the blues, swing, bebop, cool, to the present avant-garde development. Attention given to both the major forms and specific jazz innovations.

MUS526 Jazz Styles Analysis (3).
Style analysis of jazz from a historical perspective with focus on Dixieland, swing, bebop, cool, avant-garde, experimental jazz, rock fusion, and contemporary. Prerequisite: MUS525.

MUS540 Applied Music: . . . (1).
Private instruction is provided on one instrument or in voice for one hour per week. Prerequisites: Permission, open to music majors only.

MUS541 Applied Music: Percussion (1).
Private music study is provided in this area for one hour per week. Prerequisites: Permission, open to music majors only.

MUS543 Applied Music: Voice (1).
Private music study is provided in voice for one hour per week. Prerequisites: Permission, open to music majors only.

MUS544 Applied Music: Strings: . . . (1).
Private music study is provided on these instruments for one hour per week. Prerequisites: Permission, open to music majors only.
MUS544E Applied Music: Guitar (1).
Private music study is provided on the guitar for one hour per week. Prerequisites: Permission, open to music majors only.

MUS545A Applied Music: Piano (1).
Private music study is provided on the piano for one hour per week. Prerequisites: Permission, open to music majors only.

MUS545B Applied Music: Organ (1).
Private music study is provided on the organ for one hour per week. Prerequisites: Permission, open to music majors only.

MUS546 Applied Music: Brass: •.. (1).
Private music study is provided on the trumpet for one hour per week. Prerequisites: Permission, open to music majors only.

Private music study is provided on these instruments for one hour per week. Prerequisites: Permission, open to music majors only.

MUS552 Chamber Music Ensemble (1).
Provides performance experience for students interested in small ensemble literature. May lead to participation in public concerts and/or recitals. Prerequisite: Permission.

MUS556 Symphonic Band (1).
The GSU Symphonic Band consists of individuals from both the university and surrounding communities. The band provides an opportunity for students to become familiar with the problems and techniques involved in the performing of symphonic band literature. The band performs at least once each trimester of the school year. Prerequisite: Participants must audition.

MUS558 Jazz Ensemble (1).
A large instrumental organization engaging in the performance of traditional and contemporary jazz and/or rock music. Participation will be determined by audition. Prerequisite: Permission.

MUS560 University Singers (1).
An advanced vocal ensemble of twelve to eighteen vocal music majors and other talented music students that performs during the trimester. Prerequisites: By audition and invitation only.

MUS562 University-Community Chorale (1).
The GSU chorale meets from September to April and is a choral organization devoted to performing major choral works. Prerequisite: Permission.

MUS571 Electronic Music: ••.. (3).
Study of the techniques of twentieth century orchestral composition and electronic media. Each student is required to create compositions in music using concrete, electroacoustic, classical studio, and synthesizer studio styles. May be repeated for up to six credit-hours. Prerequisite: Permission.

MUS572 Hybrid Systems: Music, Arts, and Technology (3).
Examines the concepts of multiple art forms of music, art, and photography and their combination in context of multimedia events and the development of new technical vehicles for media productions.

MUS574 Music Through MIDI (3).

MUS575 Composition (3).
Students compose in twentieth century styles. A practicum for advanced students in music. Prerequisite: Permission.

MUS579 Studio Recording Techniques (3).
Provides students with the applied techniques of the recording studio from both the technical and performance aspects of studio recording.

MUS580 Piano Pedagogy (2).
Focuses on basic approaches to piano teaching from the beginning stages to the advanced student. Emphasizes the methods and materials used in individual and group instruction. Examines literature of the piano using duet, trio, and ensemble materials divided into each category suitable for the individual student. Covers basic technique of hand position, posture, fingering, rhythm, pedaling, sight-reading, and keyboard harmony.

MUS581 Vocal Pedagogy (3).
Study of vocal mechanics as they apply to breath control, intonation, and resonance.

MUS582 Vocal Literature (3).
Examines the development of the art song by nineteenth and twentieth century composers of the United States, England, Germany, France, Russia, and South America. Prerequisite: One year of lower-division studies in applied voice.

MUS583 Diction for Singers (3).
Provides a concise guide to the pronunciation of English, French, German, Italian, and Russian as applied to the performance of vocal literature in these languages.

MUS808 20th Century Harmony (3).
Studies in advanced harmony, including polychords, nontertial sonorities, bimodality, parallelism, cluster (sound mass technique), and other common twentieth century harmonic techniques.

MUS809 Form and Analysis (3).
Examines the origin and meaning of form, motif, phrase, and the period along with two- and three-part forms and the large binary and ternary forms: rondo and sonata, concerto, variations, and the suite.
MUS810 New Frontiers in Music (3).
Explores the history of music from 1917-1945.
Includes neoclassicism, expressionism, surrealism, and the twelve-tone school. Emphasizes the cities of Paris, Berlin, and Vienna.

MUS811 Contemporary Composers (3).
Examines the history of music since 1945. Includes experimentalism, electronic music, musique concrete, the Cologne School, America during the 1950s, and current trends in music composition.

MUS824 Advanced Conducting (3).
Emphasizes baton technique and score reading of major instrumental and choral compositions. Phrasing, meter, and style are closely investigated. Designed for the advanced graduate music student.

MUS830 Research Techniques in Music (3).
Includes research methods in music, learning theories, statistical procedures, curriculum development, educational objectives, and media in education.

MUS870 Graduate Research: . . . (1-4).
Individual reading, research, and/or project in music under the supervision of the faculty. Prerequisite: Permission.

MUS890 Graduate Thesis/Project: . . . (3).
Provides the student in music an opportunity to synthesize graduate work by developing and completing a thesis or project specific to the student's interests in music. Prerequisite: Permission of advisor.

Nursing

NURS304 Conceptual Basis for Professional Nursing (3).
Emphasizes professional approaches to nursing practices and builds upon rather than duplicates education received in a basic 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. Prerequisite: Fulfillment of requirements for admission to the B.S. in Nursing or classification as a conditional degree-seeking or special nondegree-seeking student.

NURS306 Gerontological Nursing: Health Promotion for Older Adults (3).
Focuses on theories, concepts, and practices of primary and tertiary prevention among aging adults living in community settings. Physiological and psychosocial and cultural factors related to aging, as well as chronic illnesses that affect people in later maturity, are explored. The nursing process with the aging adult is emphasized, and resources that assist the elderly in health care are examined. The interdisciplinary nature of gerontological theory and practice is explored. Prerequisite: Admission to the Nursing Program and completion or concurrent enrollment in NURS304.

NURS311 Nursing: The Collaborative Role (3).
Focuses on collaboration among health care professionals in the delivery of health care and its impact on professional nursing practice. Further examines the role of the professional nurse functioning in the health care delivery system in a changing society. Explores the emerging role of the nurse from a historical perspective. Prerequisite: NURS304.

NURS320 Nursing: Teaching of Client/Families (3).
Designed to develop the knowledge and skills of the teaching/learning process in nursing as applied to various client-centered health problems. Objectives are prepared for teaching and evaluating client learning. Prerequisite: NURS304.

NURS330 Nursing: Health Assessment (5).
Designed to develop skill in the physical, social, and psychological assessment of clients. Provides both theoretical and technical background in examination and diagnosis. Faculty supervised on-campus laboratory practice is done weekly using models and students in the course as subjects. Off-campus clinical component allows students, under faculty supervision, to validate learned skills on well clients in selected health care settings. Prerequisites: BIOL44, BIOL446, PHIL386, NURS304, NURS311, and NURS320.

NURS400 Nursing Research: Analysis and Utilization (3).
Provides an introduction to the methods, development, accomplishments, needs, and trends of nursing research. Emphasis is placed on developing the student's ability to analyze and apply the products of nursing research. Prerequisites: PHIL386, STAT468, and NURS330.

NURS410 Nursing: Principles of Management of Client/Patient Care (3).
A study of the nurse manager's roles, functions, and responsibilities in professional nursing practice. Selected theories and principles of management styles are analyzed in relation to their effects on clients, families, and co-workers. Prerequisite: NURS330.

NURS420 Nursing: Care in Distributive Settings (7).
This senior-level course focuses on the family, the community, public health, and nursing service directed to meet the needs of each of these entities. Faculty supervised clinical experiences are conducted through local community health nursing agencies and other varied community health settings. The roles and functions of the nurse in the distributive setting are developed during home visits and other nursing situations. Concepts of adaptation, change, communication, role, and others are emphasized within a systems framework. Prerequisites: NURS311, NURS320, NURS330 and NURS410 or concurrent enrollment, permission of instructor.
NURS440 Nursing: Senior Seminar and Practicum (4).
Students engage in terminal integrating experience that will demonstrate the use of a variety of learning experiences for initiating and implementing change in nursing practice and client care of all ages in episodic or distributive settings. Students develop and present a project demonstrating integration and proficiency in all nursing program competencies. Research findings are used. Prerequisites: All major nursing courses, STAT468, and permission of instructor.

NURS470 Independent Study: . . . (1-8).
Individual reading, research, and/or project in nursing under the supervision of the faculty. Prerequisite: Permission.

NURS480 Internship: . . . (1-8).
Designed to provide nursing students with supervised practical experiences in applied settings. Prerequisite: Permission.

NURS710 Nursing: Theories and Models (3).
Systematic examination of theories and concepts common to all nursing practice. Analysis of the general systems approach as a basis for developing a theoretical framework for nursing practice. Students will develop models for clinical nursing practice incorporating the concepts of health promotion, restoration, and maintenance. Prerequisite: Graduate nursing majors.

NURS720 Theoretical Foundations of Role Preparation in Nursing (3).
Contrasts the expanded professional role as educator, administrator, clinician or consultant in the delivery of nursing care. Studies the application of concepts and principles of role theory. Prerequisites: Fulfillment of requirements for admission to the graduate nursing program or an undeclared graduate student, as defined in the university catalog.

NURS730 Nursing Research (3).
Integration of research methodology, nursing theory, and statistics to formulate a proposal for conducting a pilot study to identify strengths and weaknesses in the intended design, sample population, and data-collection instrument. Prerequisites: NURS710 and NURS720.

NURS740 Concepts for Advanced Nursing Practice (3).
Integrates conceptual complexities of health maintenance, promotion, and restoration, incorporating knowledge from biological, behavioral, cultural, and environmental sciences, nursing, and research dynamics. Evaluates multidimensional health care client needs with nursing interventions throughout the life span and along the health-illness continuum. Formalized knowledge, concepts, and clinical judgments needed for advanced nursing practice. Prerequisites: NURS710 and NURS720.

NURS760 Critical Care Nursing (3).
Students integrate the psychosocial, biological, and pathophysiological components of critical illness and disease processes. In addition students synthesize theory and knowledge of advanced nursing practice in the management of the critically ill/injured clients and their families. Prerequisites: Placement test or NURS50A, NURS730, HLSC750. Corequisite: NURS740.

NURS770 Restorative Nursing (3).
Biological, psychological, social, cultural, spiritual concepts, and their interrelatedness are studied in terms of their relevance for restorative nursing theory and practice. Restorative nursing focuses on the care of clients who experience acute or chronic health problems requiring continuity of care, lifestyle remapping, maintenance care, and/or rehabilitation. Prerequisites HLSC750; NURS740, or concurrent enrollment.

NURS800 Seminar and Practicum in Critical Care Nursing (4).
Emphasis is placed on critical appraisal of problems and issues, problem-solving, collaboration, leadership skills, independent, and interdependent decision making in the daily management of the critically ill/injured clients and their families. Students experience the advanced practice role in the critical care, emergency, or trauma care settings. Prerequisite: NURS760.

NURS810 Seminar and Practicum in Restorative Nursing (4).
Focuses on application of a conceptual base of restorative nursing theory, research findings, and clinical approaches to advanced clinical practice with clients/families in a variety of settings. Prerequisite: NURS770.

NURS820 Clinical Specialist in Nursing (3).
An examination of historical, theoretical, and conceptual bases of CNS role development, advanced practice and evaluation. Emphasis on subroles and competencies of CNS as expert practitioner, consultant, education, researcher, collaborator, and clinical leader. Students develop a CNS model which defines, promotes, and supports advanced practice for clients with critical or chronic health needs. Prerequisite: NURS760 and NURS770 or concurrently with NURS800 or NURS810.
NURS830 Curriculum and Instruction in Nursing (3).
Provides preparation for teaching nursing in a variety of institutional settings. Includes topics on the nature of higher education, nursing education, and faculty roles. Explores curriculum designs, the instructional process, evaluation, and issues in nursing education. Prerequisite: completion or concurrent enrollment in either NURS800 or NURS810.

NURS835 Nursing Administration (3).
Explores the history and trends in nursing administration. Emphasizes theoretical approaches to the process of nursing administration. Analyzes elements of administration within the organizational framework of nursing services utilizing the decision-making process and the concepts of human behavior. Prerequisite: completion or concurrent enrollment in either NURS800 or NURS810.

NURS845 Seminar and Practicum for Clinical Specialists (4).
Provides graduate students with field experiences implementing the role of clinical nurse specialist. Students work with critical and restorative clients incorporating advanced practice models in a variety of health care settings with a clinical nurse specialist and faculty supervision. Prerequisite: NURS820.

NURS850 Seminar and Practicum for Nurse Educators (4).
Involves students’ experimenting with various teaching/learning theories and strategies in selected nursing education settings. Focuses on implementation of the role of teacher and its application to nursing education systems. Concurrent seminars focus on functions unique to the nurse educator. Prerequisites: NURS835 and permission of instructor.

NURS855 Seminar and Practicum for Nurse Administrators (4).
Focuses on the implementation of the role of nursing administrator in selected health care agencies. Concurrent seminars focus on functions unique to nursing administrative roles. Prerequisites: NURS835 and permission of instructor.

NURS870 Independent Study: (1-8).
Individual reading, research, and/or project in nursing under the supervision of the faculty. Prerequisite: Permission.

NURS880 Internship: (1-8).
Designed to provide nursing students with supervised practical experiences in applied settings. Prerequisite: Permission.

NURS890 Graduate Thesis/Project: (1-8) P/NC.
Provides the nursing student the opportunity to synthesize graduate course work by developing and completing a thesis or project specific to the student's interests in nursing. Prerequisite: Degree candidacy and permission of thesis advisor.

Philosophy

PHIL301 Studies in Philosophy (3).
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.

PHIL311 Studies in Religion (3).
Offered in televised format only. A review of various approaches to religion: philosophical, theological, sociological, psychological. Discussion of the differing forms of religion, theories on their origins, and comparative views of the major world religions.

PHIL330 Ethics in Health Care (3).
Provides preparation for teaching nursing in a variety of institutional settings. Focuses on implementation of the role of teacher and its application to nursing education systems. Concurrent seminars focus on functions unique to the nurse educator. Prerequisite: NURS820.

PHIL386 Logic (3).
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.

PHIL470 Independent Study: (1-4).
Individual reading, research, and/or project in philosophy under the supervision of the faculty. Prerequisite: Permission.

PHIL501 Age of Enlightenment I (3).
Offered in televised format only. Explores the culture of the eighteenth century Age of Reason at its height through the close study of a number of major texts and of certain leading figures. The "texts" consist not only of works of literature, philosophy, and history, but also of paintings and musical compositions.

PHIL502 Age of Enlightenment II (3).
Offered in televised format only. Continuation of PHIL501.

PHIL524 Chinese Thought (3).
A study of the major Chinese thinkers and their writings.

PHIL533 Aesthetics (3).
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.
PHIL542 Ethics (3).
An in-depth examination of the controversial moral dilemmas perplexing modern Americans. Eight scholarly writers explore the dilemmas surrounding such issues as crime and punishment, political and business ethics, and individual behavior.

Photography

PHOT300 Photography (3).
Introductory level course in the art and science of photography. Covers black and white film processing and printing, camera operation, exposure, and print presentation. Presents an overview of historically significant photographs and photographers. Students must have access to a camera with manual controls for focus, lens opening, and shutter speed.

PHOT305 Advanced Photographic Techniques (3).
Improves skills in producing fine quality black and white photographs of aesthetic sophistication and technical excellence, archival keeping properties and presentation techniques. Involves the study of practical sensitometry, chemical analysis and customizing processing controls, and tone reproduction and previsualization as used in the zone system. Prerequisite: PHOT300.

PHOT410 Photographic Theory (3).
Presents the theoretical basis of modern photographic technology. Investigates the physical and chemical foundations of the photographic process, including the nature of light, human vision, optics and image formation, light sensitive materials, sensitometry, photographic chemistry and processing, and the reproduction of color. Prerequisite: PHOT305 or permission.

PHOT440 Studio Photography (3).
Study of the use of artificial light sources, view camera techniques, and object placement as they relate to a controlled studio environment for both commercial and noncommercial applications. Course is a prerequisite for specialized commercial workshops. Prerequisites: PHOT305 and either PHOT530 or PHOT531.

PHOT443 Photographic Portraiture (3).
Studies in the photographic replication of the human likeness in commercial portraiture, advertising, documentary, and fine art. Course is a prerequisite for specialized commercial workshops in advanced portraiture and fashion. Prerequisites: PHOT300; and either PHOT530 or PHOT531.

PHOT450 Photojournalism (3).
Applied studies in print media photography with emphasis on newspaper and public relations work. Covers camera systems, filters, electronic flash, push processing of film, and printing for information and emphasis. Prerequisite: PHOT300.

PHOT470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in photography under the supervision of the faculty. Prerequisite: Permission.

PHOT480 Internship: . . . (1-4).
Designed to provide photography students with supervised practical experiences in applied settings. Prerequisite: Permission.

PHOT495 Photographic Portfolio (3).
Concentrates on thematic evolution. Involves students in historical research and the production of a limited edition aesthetic portfolio using any photographic process. Prerequisite: At least fifteen hours of advanced photography.

PHOT500 History of Photography (3).
Surveys significant events, movements, and practitioners in the history of photography from 1839 to the present. Discusses technical and aesthetic issues.

PHOT530 Color Photography: Positive Processes (3).
Covers colors theory and aesthetic practice using positive-to-positive print processes, including Kodak process E-6 Cibachrome. Emphasis on color balance, filtration, contrast control, and presentation techniques. Prerequisite: PHOT300.

PHOT531 Color Photography: Negative Processes (3).
Investigates negative-to-print methodologies with emphasis on Kodak Process, C-41, and EP II as used in trays and processing tubes. Emphasis on color filtration, color balance, and the aesthetic use of color. Prerequisite: PHOT300.

PHOT535 Non-Silver Photographic Processes (3).
Aesthetic exploration of several experimental photographic processes includes cyanotypes, Van Dyke, Kwik Print, ink image transfers, acrylic lifts, and xerographic drafting materials. Prerequisite: PHOT300.

PHOT541 Photography: Graphic Applications (3).
Introduces various applications of photographic registration systems, posterization, tone-line and bas relief printing, and color proofing using 3M color key or Kwik Print materials. Prerequisite: PHOT300.

PHOT555 Documentary Photography (3).
Exploration of one of photography's mainstream traditions, the photographic document. Students will work as groups or individually to produce a photographic document of a subject of their choice. Prerequisite: PHOT300.

PHOT560 Photographic Equivalence Studies (3).
Investigates the sophisticated concept in vision of Alfred Stieglitz and Minor White. Emphasizes the emotional equivalent of the photograph, rather than the subject matter portrayed. Explores emotional equivalents, including the photographic studies of time/space relationships advocated by Wynn Bullock. Prerequisite: Permission.
PHOT570 Photography Workshop: . . . (1-3).
Specific aesthetic, technical, and/or commercial applications are considered in a series of organized workshops utilizing outside or on-campus resources. Photography workshops may be repeated for different subjects. Prerequisites: Vary depending upon specific workshop topic.

PHOT760 Photographic Criticism (3).
Advanced studies in the critical analysis of photography and photographic exhibitions. Includes a survey of historical and contemporary critical thought. Prerequisites: PHOT305 and PHOT500.

PHOT780 Internship: Curatorial Studies (1).
Provides students with the experience in gallery management and maintenance and the organization and production of exhibitions. Prerequisites: History of art or photography courses; permission.

PHOT830 Graduate Photography (3).
Provides opportunity for advanced work to students involved in long-term or specialized projects. Students are expected to work with the instructor through class sessions and individual critiques in meeting the graduate photography competence. Individual student proposals will determine the nature of the work to be undertaken. Course may be repeated with instructor's permission. Prerequisite: Permission.

PHOT895 Photographic Portfolio (3).
Concentrates on thematic evolution. Involves students in historical research and the production of a limited edition aesthetic portfolio using any photographic process. Graduate level portfolio is expected to have a more sophisticated theme and complete control of print quality. Prerequisite: At least fifteen hours of advanced photography.

Physics

PHYS302 Physical Science Foundations (3).
Covers major principles and concepts in physical science that govern the universe and help the non-science major gain experience with scientific processes and problem solving. Topics include measurement, forces, motion, work and energy, heat, electricity, and nuclear physics.

PHYS303 Physical Science Foundations Laboratory (1).
Provides hands-on experience illustrating some of the basic principles of physical science, including techniques that help in making meaningful observations and measurements. Prerequisite: PHYS302 or concurrent enrollment.

PHYS352 Intermediate Physics I (3).
Topics include kinematics, forces, energy, rotational motion, fluid properties, thermodynamics, and wave properties. Prerequisite: MATH325.

PHYS353 Intermediate Physics I Laboratory (1).
Deals with planning and conducting measurements, forces, motion, pressure, heat, surface tension, and waves. Corequisite: PHYS352.

PHYS362 Intermediate Physics II (3).
The areas of physics covered in this course include electricity, magnetism, light, and optics. Prerequisite: PHYS352.

PHYS363 Intermediate Physics II Laboratory (1).
Laboratory investigation is necessary to give the student experience in obtaining answers by making first-hand observations and appropriate measurements. The investigation may involve finding the value of a physical quantity, or it may involve the search for a relationship between two or more variables' quantities. Prerequisite: PHYS362 or concurrent enrollment.

PHYS500 Charting the Night Sky (2).
A study of the celestial sphere and the relations between the apparent motions of the sun, moon, and planets with respect to the stars. Emphasis is placed on how to locate and identify bright stars, constellations, and planets in the night sky.

PHYS501 Astronomy in the Classroom (1).
Survey workshop on astronomy includes 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.

PHYS502 Introduction to Archaeoastronomy (1).
Introduces 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.

PHYS503 Introduction to Cosmology: The Big Bang (1).
This course will focus on the big bang, the modern version of creation, a topic of fascination since the dawn of humanity. The class will begin with the observational evidence for the expanding universe that was obtained in the early 20th century by Edwin Hubble through, and including the latest results from, the Cosmic Background Explorer satellite.

PHYS506 Stars and Nebulas (1).
Covers the laws of nature that govern the behavior and properties of stars and the universe. Includes how stars are born, live, and die.

PHYS508 Galaxies and Quasars (1).
Focuses on the historical and current theories about the origin and structure of the universe. Examines properties of galaxies and quasars.
PHYS510 Black Holes, Quasars, and the Universe (1).
Covers the death of stars, from white dwarfs and neutron stars to black holes. Also included will be a study of the violent explosions that rock the central regions of many galaxies, as well as the relationship of exploding galaxies to quasars.

PHYS512 Intelligent Life in the Universe (1).
Explores questions such as the following: What is meant by life? Does life exist on other planets? Do we have planetary neighbors? Who will be the first to make contact? What will their interest in us be?

PHYS514 Telescopes and Observatories (1).
Introduces concepts related to optics and operation of reflecting and refracting telescopes. Students learn how to determine the resolving power and light gathering ability of a telescope.

PHYS516 Halley's Comet (1).
A study of the early ideas about comets, origin and behavior of comets, and Halley's comet.

PHYS518 Inner Solar System: The Terrestrial Planets (1).
A study of the planets Mercury, Venus, Earth, and Mars. Emphasis placed on understanding the basic properties of the planets, how they were formed, their atmospheres, and the natural satellites of Earth and Mars.

PHYS520 The Outer Solar System: The Jovian Planets (1).
A study of the planets Jupiter, Saturn, Uranus, and Pluto. Emphasis will be placed on understanding the basic properties of the planets, how they differ from the terrestrial planets, and the natural satellites of each planet.

PHYS525 Energy, Resources, and Society (3).
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. Prerequisite: MATH325, college algebra or equivalent.

POLS301 Principles of Political Science (3).
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.

POLS302 American National Government (3).
Examines U.S. governmental institutions, the informal pressures that influence them, and the policies produced by the governing process.

POLS305 Contemporary Political Thought (3).
Provides an overview of nineteenth and twentieth century political thought, including socialism, nationalism, fascism, libertarianism, and feminism.

POLS310 International Organizations (3).
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.

POLS311 Transformation of the Global System (3).
Integrated analysis of processes and issues in international politics, with emphasis on substantive topics in selected sections of our global system. Prerequisite: International relations recommended.

POLS320 Local Governmental Systems (3).
Examines local government in the United States. Emphasizes the legal basis and functioning of local jurisdictions in Illinois.

POLS355 Health Care and Politics (3).
Study of federal, state, and local legislative, regulatory, and political processes, and their effect on the health care system and its professions. Deals with ways to interact with those processes.

POLS440 Constitutional Law: Civil Liberties (3).
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. Prerequisite: CJUS340 or POLS302.

POLS460 Political Theory (3).
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. Prerequisite: POLS302 or permission.

POLS470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in political science under the supervision of the faculty. Prerequisite: Permission.

POLS480 Internship: . . . (1-4).
Designed to provide political science students with supervised practical experiences in applied settings. Prerequisite: Permission.

POLS489 Board of Governors Minority Internship Program (1-12).
Designed to provide undergraduate Board of Governors minority interns with supervised experiences in federal, state, local, and corporate settings in areas such as policy analysis and corporate relations. Prerequisite: Permission of instruction.
POLS505 Principles and Theories in Political Studies (3).
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 Studies. Prerequisite: Introduction to political studies.

POLS510 Topics in Political Science: ... (1-3).
Deals with topics of current interest, exploring several aspects of the topic using a variety of methodologies from the discipline of political science.

POLS520 U.S. and Illinois Elections (3).
Studies elections in Chicago, the suburbs, the state, and the nation. Examines current trends and includes participation of past or present elected officials. Prerequisite: POLS302 or permission.

POLS530 The Chicago Political Tradition (1).
Examines past and current politics in the city of Chicago. Analyzes thoroughly twentieth century Chicago mayors. Prerequisite: POLS302 or permission.

POLS531 Readings, Black Politics, and the American Political System (3).
A study of the patterns of black politics in the development of African-American participation in the American political and economic systems.

POLS536 Problems in International Politics (3).
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.

POLS538 Urban Politics (3) 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.

POLS540 Political Economy of Urban Development (3).
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. Prerequisite: Instructor's permission.

POLS563 Seminar: Comparative Urban Future (3).
Analyzes problems of urban processes and redevelopment as they relate to central city minorities. Discussed within a comparative and futuristic perspective.

POJS610 Race, Class, Politics, and Justice (3).
Examines the political participation of under-represented groups in American politics, including blacks, Latinos, Asians, women, and Jewish Americans. Various modes of political participation, including voter participation, lobbying, campaign contributions, rallies, and protest activities, and other forms of political participation will be analyzed and evaluated.

POJS620 Models for Community Conflict Resolution (3).
This course examines the emerging theories and perspectives on violence and community conflict. Students will also study the political, social and psychological aspects of violence and community conflict within a range of fear and trust extension contexts. Emphasis will be placed on the formulation of general frameworks to promote new research activities. Prerequisite: CJUS325 or advisor permission.

POJS632 Political Sociology (3).
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.

POJS705 Law, Society, and Public Policy (3).
Discussion of basic aspects of law, analysis of selected public policy topics, and the effects of judicial decisions upon the formation of public policy.

POJS715 U.S. Foreign Policy (3).
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.

POJS718 Public Opinion and American Democracy (3).
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. Prerequisite: SOSC450.

POJS720 Elites and American Democracy (3).
Examines theories and justification of elitism. Deals with comparative political elites, the interrelationship between recruitment, circulation, and democratic accountability in American politics.
POJS725 American Political Behavior (3).
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.

POJS735 Third World in Global Development (3).
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.

POLS737 Political Geography (3).
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. Prerequisite: Social science background.

POJS750 Survey Research I: Theory (3).
Explores the selection of problems appropriate for analysis through survey design, the method of cross-sectional analysis, data processing, survey data analysis, and writing the survey research report. The growing use of survey research by academics, mass media, business, interest groups, and political candidates will be highlighted. Prerequisite: SOSC450.

POJS751 Survey Research II: Application (3).
The theoretical constructs of survey research are applied, and advanced applications are studied through the implementation of a survey research design project. Prerequisite: POJS750.

POJS806 Comparative Urban Redevelopment (3).
Analyzes the redevelopment of older American cities in comparative context. Draws upon examples of older non-American cities for theoretical understanding and conceptual clarity.

POJS810 Seminar: Labor Force Participation (3).
Uses labor market techniques to show job stratification in urban communities. Examines mechanisms to increase employment growth along with issues of labor migration.

POJS815 Theories and Approaches to Political Science and Justice Studies (3).
Examines the basic theories and approaches to the study of political and justice studies, including pluralism and interest group theory, game theory, and the decision-making approach. Student is required to complete and present to the class a bibliographical research paper. Prerequisite: Student must complete one of the following courses: CJUS510, POLS501, or POLS505.

POJS820 The Presidency, Congress, and the Courts (3).
Examines the historical and legal evolution of the presidency, Congress, and the courts in the American political process. The development of bureaucracy also will be explored. Prerequisite: POLS502 or POLS505.

POJS821 American Government and Policy (3).
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. Prerequisite: POJS820.

POJS824 Intergovernmental Relations (3).
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. Prerequisite: POJS820.

POJS830 Comparative Political and Justice Systems I (3).
Examines general comparative approaches to political systems of post-industrial, industrial, and emerging states. Topics studied include the nature of power structure, political development and culture, economic strategies, and leadership. Prerequisites: POLS505 or CJUS465, or permission of instructor.

POJS831 Comparative Political and Justice Systems II (3).
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. Prerequisite: POJS830.

POJS835 Topics in Policy Analysis (3).
An in-depth analysis of selected policy issues using advanced policy analysis techniques. Prerequisites: POJS810 and POJS820.

POJS841 Research Methods (3).
The uses and objectives of empirical research in social sciences, the principal assumptions underlying the approach, and the major controversies surrounding it are examined. The role of theory in empirical research and research design and the principal methods of data collection and data analysis in the social sciences are discussed. Prerequisite: SOSC450 or permission of instructor.

POLS845 International Law and Organization (3).
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. Prerequisite: POJS830.
POLS863 Seminar in American Institutions and Values (3).
Examines normative issues as they relate to American public administration. Prerequisite: POLS302 or POLS320.

POJS869 Directed Readings: ... (3).
Supervised readings on the theory, methods, and approaches of the political science areas of American politics, public policy, comparative politics, and international relations. Prerequisite: Permission of division chair.

POJS870 Graduate Research: ... (1-4).
Individual reading, research, and/or project in political science under the supervision of the faculty. Prerequisite: Permission.

POJS880 Internship: ... (1-4).
Designed to provide political science students with supervised practical experiences in applied settings. Prerequisite: Permission.

POJS885 Internship Project (6).
Designed to provide political science students with supervised practical experiences in applied settings. This includes the application of the students' knowledge and skills in a culmination experience approved by a faculty committee and resulting in a final project. Prerequisites: Candidacy and advisor permission.

POJS889 Board of Governors Minority Internship Program (1-9).
Designed to provide graduate Board of Governors minority interns with supervised experiences in federal, state, local, and corporate settings in areas such as intergovernmental relation, policy analysis, and decision making. Prerequisite: Permission of instructor.

POJS890 Graduate Thesis/Project (3).
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 presented and discussed. Prerequisites: POJS815, POJS820, POJS821, POJS830, and POJS841.

Psychology

PSYC310 Principles of Psychology (3).
Offered in both lecture and televised formats. 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.

PSYC320 Educational Psychology (3).
Helps teachers and educators develop a better understanding of how children develop and learn and how teachers/educators facilitate these processes. Systematic testing of learning theories is explored with particular reference to effects of culture on learning. Improves the students' ability to identify, select, organize, and evaluate instructional methods and materials. Students are expected to spend ten hours in classroom situations exclusive of class time.

PSYC340 Industrial Psychology (3).
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.

PSYC410 Personality Theories (3).
Offered in both lecture and televised formats. 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 viewpoints. Prerequisite: PSYC310.

PSYC412 Laboratory in Transactional Analysis (2) P/NC.
Students learn the major theory and concepts of transactional analysis and apply these to their own behavior.

PSYC422 Learning Cognition (3).
Examines limitations of short-term memory, transfer of information to long-term memory, organization of knowledge, and the nature of cognitive processes. Prerequisite: PSYC310.

PSYC430 Abnormal Psychology (3).
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. Prerequisite: PSYC310.

PSYC435 Personality and Patterns of Adjustment (3).
Examines how various schools of psychology differ in their explanation and treatment of the many forms of psychological distress that confront us in our personal lives in the workplace and in society. Guides the potential user in asking the right questions and making intelligent decisions in seeking professional mental health assistance.
PSYC440 History and Systems of Psychology (3).
Surveys the major theories of psychology and their relationship to current professional practices. The focus of the course is to enable students to understand and compare the origin and development of different psychological perspectives in terms of metatheoretical issues. Prerequisite: PSYC410.

PSYC445 Social Psychology (3).
Offered in both lecture and televised formats. 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. Prerequisite: PSYC310.

PSYC446 Psychological Issues and Values (3).
Discussion and exploration of social values, psychological issues, and personal responses to a variety of social issues. Includes cross-cultural differences in values, living with a life-threatening illness, death, unemployment, child abuse and neglect, battered women, divorce, substance abuse, mental illness, and others. Visits to agencies providing services will occur outside of class.

PSYC447 Characteristics of Human Sexuality (3) P/NC.
Focuses on general aspects of human sexuality with an emphasis on interpersonal relationships and psychosocial functions.

PSYC460 Professional Standards in Human Service and Research (3).
Focuses on ethical principles and standards in human service and research professions. Deals with application to hypothetical situations involving professionals, research subjects, and clients. Studies various values, philosophical positions, and legal cases.

PSYC470 Independent Study: . . . (1-6).
Individual reading, research, and/or project in psychology under the supervision of the professor. Prerequisites: Permission of instructor and division chairperson.

PSYC470P Independent Study: . . . (1-6) P/NC.
Individual reading, research, and/or project in psychology under the supervision of the faculty. Prerequisites: Permission of instructor and division chairperson.

PSYC480 Field Experience: . . . (3).
Provides the opportunity to apply and assess theoretical psychological concepts in agency and business settings under the supervision of faculty. Prerequisites: Permission of advisor, course work in personality, abnormal psychology, and theories and treatment of life problems, and twelve additional hours in B.A. in Psychology and/or mental health concentration requirements.

PSYC505 Introduction to Stress Management (3).
Focuses on identifying and assessing the various causes of physical, mental, and emotional stress at home and on the job, recognizing the body's early warning signals of stress overload, understanding the impact of stress on physical and mental disorders, and learning effective methods of reducing stress.

PSYC506 Laboratory in Personal Stress Management (2).
Focuses on the individual's internal and external stresses and theories and methods of reducing stress such as lifestyle, exercise, and nutrition.

PSYC510 Adolescence (3).
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.

PSYC512 Child Development (3).
Offered in both lecture and televised formats. Covers theories related to cognitive, emotional, and physical growth of children. Focuses on prenatal issues and the availability of children's resources in the community.

PSYC514 Understanding Men (3).
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.

PSYC515 Adulthood (3).
Offered in both lecture and televised formats. Presents theories of adult development as they relate to major problems of adulthood. Investigates the availability of resources for adult development in local communities.

PSYC516 Seasons of Life (3).
Offered in televised format only. An introductory life-span course that helps students place cognitive, affective, and physical development in the broader perspective of the whole life-span and in the context of a complex global culture rapidly undergoing change. A variety of materials are used from the fields of psychology, sociology, anthropology, and education touching on some of the most provocative and important issues that we face in this historical period.

PSYC519 Psychosocial Aspects of Aging (3).
Studies basic concepts and theories of aging. Evaluates the impact of social, biological, and psychological variables on aging adults. Analyzes lifestyle of older adults and examines community resources for the aged.

PSYC523 Cognitive Development (4).
Examines modes of representation, relation of language and thought, comprehension, and meaning as they develop from childhood to adulthood.
PSYC524 Principles of Behavior Change (3).
Study of theory and procedures of behavior modification. Includes case materials from psychology, education, and special education. Prerequisite: PSYC310.

PSYC525 Brain and Behavior (3).
Offered in televised format only. Provides a comprehensive understanding of the human brain and its functions. It is particularly suited for psychology majors and others who are interested in brain behavior relationships. Prerequisite: PSYC310.

PSYC527 Laboratory in Personal Growth (2)
P/NC.
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 student's life.

PSYC529 Psychology of Women (3).
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.

PSYC531 Laboratory in Interpersonal Growth (2)
P/NC.
Students identify their interpersonal communication strengths and areas of difficulties and examine the interpersonal communication processes through which they initiate, maintain, and terminate relationships.

PSYC532 Laboratory in Assertiveness Training (3)
P/NC.
Examines concepts of assertion training and development of cognitive and behavioristic skills to replace maladaptive responses. Provides reinforcement and social networks to ensure the continuity of newly acquired behaviors. Prerequisite: Permission.

PSYC533 Advanced Experimental Psychology (3).
Presents an in-depth coverage of research designs used in experimental psychology. Includes selected readings of published research from various content areas in psychology, memory, learning, social psychology, and perception.

PSYC536 Motivation and Emotional Development (4).
Examines and applies theories of motivation, moral development, and emotional development.

PSYC537 Psychology of Human Consciousness (3).
Study of the nature and functioning of the human mind. Considers major modes of human consciousness, means of extending human consciousness, and therapeutic applications.

PSYC538 Laboratory in Feelings and Meanings (3).
Study of understanding and responding to confusing communication. Activities clarify hidden meanings and feelings and teach more honest communication in school, medical, business, and social settings.

PSYC539 Institution and Experience of Motherhood (3).
Covers both historical and contemporary writing on mothers and motherhood. Considers the variety of ways in which the role of motherhood has been viewed. Studies the impact of motherhood on the psychology of the individual. Includes case material, field interviews, and (for graduate students) the development of a research design. Prerequisite: An introductory course in psychology or other social science.

PSYC543 Eastern Perspectives on Psychotherapy (3).
Offers Eastern perspectives on such perennial questions as the nature of consciousness, personal identity, mental, emotional, and spiritual well-being. Explores therapeutic implications in the Western context. Prerequisite: A course in therapeutic communications, human consciousness or theories of counseling, or permission of instructor.

PSYC544 Theories and Treatment of Life Problems (3).
Integrates human relations experiences with theoretical work in abnormal development and basic approaches to treatment. Includes readings on therapist bias and life crises. Deals with client-centered, rational emotive, gestalt, and psychoanalytic theories.

PSYC545 Introduction to Short-Term Dynamics Psychotherapy (3).
Presents concepts, models, and techniques of short-term dynamics psychotherapy; its advantages over the traditional long-term model and its usefulness within a social context. Students will read, discuss, and apply various models to select diagnostic categories. Prerequisite: PSYC410.

PSYC555 Introduction to Therapy with Children (4).

PSYC556 Theories and Treatment of Emotional Disturbance in Children II (4).
Reviews the relevant literature on etiology and treatment. Students work with children with emotional difficulties under close supervision. Includes case consultations and case conferences. Prerequisites: PSYC544, PSYC555, and permission.

PSYC558 Introduction to Therapy with Adults (4).
PSYC359 Psychodrama (3).
Prepares psychodramatic techniques utilized for resolving emotional and interpersonal difficulties. Prerequisite: PSYC527, PSYC531, or permission.

PSYC560 Research Methodology (3).
Introduces the basic principles of research. Focuses on basic knowledge about research methods and the development of analytic skills. Covers finding a researchable problem, developing a testable hypothesis, search of the literature, developing an appropriate research design, and selecting appropriate measuring devices.

PSYC573 Laboratory in Alternative Lifestyles and the Helping Professions (3).
Examines alternative lifestyles occurring in our culture. Provides opportunities to meet people living alternative lifestyles and to explore personal feelings and reactions and their implications for professional work. Prerequisite: Permission.

PSYC585 Human Values (3).
Examines the concept of value and explores the student's own value structure. Examines resultant behavior patterns and differences among value systems subscribed to by different people.

PSYC610 Measurements and Evaluation (3).
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. Prerequisite: STAT445 and completion of concurrent enrollment in PSYC560.

PSYC630 Topics in Psychology: . . . (1-3).
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.

PSYC640 Psycholinguistics (3).
Prepares literature and theories in the field of psycholinguistics, with special emphasis upon language development, cognitive development, and comprehension. Prerequisite: A course in either child growth and development or learning cognition.

PSYC720 Cultural Foundations and Life Span Development (3).
Study of the nature and needs of individuals at all developmental levels in the context of societal changes and trends. Socioeconomic, multicultural, and subgroup changes and conflicts are considered. Social issues and their effects on individual development are examined. Prerequisites: Graduate student status and one developmental psychology course.

PSYC805 Advanced Early Childhood Development (3).
Emphasizes important theoretical influences on 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. Prerequisite: undergraduate course in child development.

PSYC806 Cognitive Development: Implications for Instruction (3).
Examines the nature and development of human condition from early childhood to adulthood. Studies the implications of cognitive development for instruction and instructional materials assessment and development. Prerequisite: A course in human growth and development.

PSYC815 Learning Processes: Adults (3).
Investigates the factors influencing attitudinal and behavioral change in adulthood. Includes an overview of current learning theories of three major schools of psychology. Examines how these learning theories affect the adult learning process. Prerequisite: three hours of psychology or learning theory.

PSYC820 Graduate Seminar in Psychoanalytic Theory (3).
Offers advanced students the opportunity to explore current thinking in psychoanalytic theory and treatment. Emphasizes the application of ego psychology and self psychology to therapeutic technique. Provides a brief review of classical Freudian theory, but students are expected to have had some introduction to this material. Prerequisites: COUN630, PSYC410, PSYC430, or PSYC544.

PSYC821 Graduate Seminar in Abnormal Psychology (3).
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. Prerequisite: Either one of the following: COUN630, PSYC430, PSYC544; or overview of diagnostic categories.

PSYC822 Seminar in Human Memory (3).
Provides students with an in-depth exposure to a single substantive area in the domain of experimental psychology. Studies research and theory in the area of human memory.

PSYC824 Graduate Seminar in the History of Psychology (3).
Covers a wide range of systems of psychological thought responsible for modern conceptions of human learning and development, clinical psychology, and social psychology.
PSYC825 Imaging Process in Psychotherapy (3).
Examines imagery as a basic capacity possessing enormous potential for therapeutic communication. Includes topics on relationship between imagery, fantasy, and other basic psychological processes. Students study the nature and structure of imaging process, explore the implications of guided as well as spontaneous imagery for therapeutic communication, apply imaging process to selected therapeutic contexts, and assess effectiveness of such applications. Prerequisite: COUN844, COUN846, or permission.

PSYC826 Graduate Seminar in Social Psychology (3).
Integrates theories and principles of social psychology with emphasis on the effects of ecological factors on the behavior of individuals, groups, and corporations. Prerequisite: PSYC445.

PSYC827 Human Sexuality (3).
Examines sexual dysfunctions in terms of interpersonal and intrapersonal communication disturbances: personal, social, and cultural norms and values in the area of interpersonal sexuality. Prerequisite: COUN810 or permission.

PSYC828 Graduate Seminar in Cognitive Psychology (3).
Examines recent theoretical developments in cognitive psychology. Emphasizes the areas of visual perception, concept formation, and language comprehension. Prerequisite: PSYC422.

PSYC829 Graduate Seminar in Human Development (3).
Presents students with up-to-date research in the developmental area. Integrates developmental issues at all stages of life. Provides students with links between theoretical and applied issues of development. Prerequisite: One developmental course or permission of instructor.

PSYC831 Therapeutic Communication (3).
Defines psychopathology in terms of interpersonal and intrapersonal communication disturbances. Identifies therapeutic interventions that improve the quality of interpersonal communication. Prerequisite: COUN810 or permission.

PSYC835 Roles and Issues in School Psychology (3).
Introduction to the discipline of school psychology. Covers various roles and functions in the school-based practice of school psychology. Includes coverage of professional standards and ethical and legal issues.

PSYC846 Individual Assessment I: School Age (3).
Focuses on the individual assessment 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. Prerequisites: PSYC610 and concurrent enrollment in PSYC847.

PSYC847 Individual Assessment I: School Age Laboratory (2).
To be taken concurrently with PSYC846. Provides individual observation and feedback to students as they learn the administration of different tests. Prerequisites: PSYC610 and concurrent enrollment in PSYC846.

PSYC848 Individual Assessment II: Preschool (3).
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. Prerequisite: PSYC846 and PSYC847.

PSYC853 Human Neuropsychology I: Brain Function (3).
Explores the theories and analysis of brain function, structure, and brain behavior relationships. Prerequisite: PSYC610.

PSYC854 Human Neuropsychology II: Clinical Assessment (3).
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. Prerequisite: PSYC853.

PSYC857 Individual Assessment III: Personality (3).
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. Prerequisites: PSYC410 and PSYC610.

PSYC858 Advanced Seminar in Assessment and Intervention (2).

PSYC865 Practicum in School Psychology (4)
P/NC.
Practice in a school setting: diagnosis of psychological, social, and learning problems. Participation in counseling sessions, guidance activities, individual and group diagnostics, and referral of students with learning problems. Prerequisites: COUN844 or COUN853, COUN851, PSYC846, PSYC847, PSYC848, PSYC857, PSYC858, and SPED619.

PSYC870 Independent Study: . . . (1-6).
Individual reading, research, and/or project in psychology under the supervision of the faculty. Prerequisites: Permission of instructor and division chairperson.
PSYC870P Independent Study: . . . (1-6) P/NC.
Individual reading, research, and/or project in psychology under the supervision of the faculty. 
Prerequisite: Permission of instructor and division chairperson.

PSYC880 Internship: . . . (1-6) P/NC.
Designed to provide students in psychology with supervised practical experiences in applied settings. 
Prerequisite: Permission.

PSYC890 Graduate Thesis/Project: . . . (4) P/NC.
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. 
Prerequisite: Permission of advisor or committee.

PSYC920 Internship in School Psychology I (3) P/NC.
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. 
Prerequisite: Completion of the M.A. in Psychology with the school psychology certificate option.

PSYC921 Internship in School Psychology II (3).
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. 
Prerequisite: Completion of PSYC920.

Public Administration

PADM301 Introduction to Public Administration (3).
Offered in both lecture format and as a correspondence course. Examines theories, history, and current issues of administration in government.

PADM420 Public Personnel Administration (3).
Studies and evaluates principles, practices, and problems of personnel administration in government. 
Prerequisite: PADM301 or permission.

PADM430 Planning Theory (3).
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. 
Prerequisite: PADM301 or permission.

PADM435 Public Policy Analysis (3).
Introduces students to conceptual models for understanding government policy making and implementation. Provides information about various governmental policies. 
Prerequisite: PADM301 or permission.

PADM560 Administrative Law (3).
Introduces the legal principles underlying administration in government. Concentrates on basic administrative procedures affecting government under the constitution. 
Prerequisite: PADM301 or permission.

PADM450 Introduction to Urban Planning (3).
Provides an introduction to urban planning, a history of its efforts, and a review of the elements in professional practice today. 
Prerequisite: PADM301 or permission.

PADM455 Local Government Planning (3).
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. 
Prerequisite: PADM301 or permission.

PADM460 Public Finance and Budgeting (3).
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 official in deciding and resolving issues of revenue and expenditure policy.

PADM470 Independent Study: . . . (3).
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. 
Prerequisites: Permission of instructor and dean.

PADM480 Internship: . . . (3).
Designed to combine individual career counseling and work outside of the classroom with institutional learning settings. 
Prerequisite: Permission.

PADM500 Workshops on Zoning and Planning: . . . (1) P/NC.
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. 
Prerequisite: Permission.
PADM505 Economics of Urban Planning (3).
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. Prerequisite: PADM301 or permission.

PADM508 Using Microcomputers in Planning (2).
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. Prerequisite: PADM301 or permission.

PADM510 Government and the Public (3).
Studies the communication and human relations problems between government and the people it serves. Emphasizes efforts to alleviate the problems. Prerequisite: PADM301 or permission.

PADM520 Urban Growth Management (3).
Investigates how communities control the rate, timing, location, and size of development. Includes review of a series of community growth management plans and regulations. Prerequisite: PADM301 or permission.

PADM521 Suburban Policy Issues (3).
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. Prerequisite: PADM301 or permission.

PADM536 Environmental Land Use Planning (3).
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. Prerequisite: PADM450.

PADM540 Planning Methodology (3).
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. Prerequisite: PADM450.

PADM545 Regional Planning (3).
Broad coverage of regional planning, its basic concepts, techniques of analysis, and planning methods. Prerequisite: PADM301 or permission.

PADM560 Administrative Law (3).
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. Prerequisite: PADM301 or permission.

PADM580 Public Safety Administration (3).
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. Prerequisite: PADM301 or permission.

PADM584 Law Enforcement and the Constitution (3).
Examines the requirements and limitations imposed upon the law enforcement process by the constitution. Emphasizes the U.S. Supreme Court's interpretations of the 4th, 5th, 6th, and 14th Amendments. Prerequisite: POLS302 or permission.

PADM585 Practicum in Urban Planning (3).
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. Prerequisites: PADM301, PADM450, and permission.

PADM801 Concepts and Issues in Public Administration (3).
Provides an overview for the study of public policy and administration. Designed to develop an appreciation for the vocabulary of the field, to increase the student's understanding of public agencies and their role within the American democratic structure, and to develop an increased awareness and understanding of the individual role within public agencies. Prerequisite: PADM301 or permission.

PADM812 Seminar in Public Budgeting (3).
Examines advanced questions about budgeting in government, including various budgeting systems and how to prepare a realistic budget in the public sector. Considers revenues, expenditures, and intergovernmental aid. Prerequisite: ECON301.

PADM820 Seminar in Urban Government (3).
Examines advanced questions about the functioning of urban governments in America. Prerequisite: PADM301 or permission.

PADM840 Seminar in Public Policy (3).
Examines advanced questions about the development of public policy. Prerequisite: PADM301 or permission.
PADM851 Seminar in Public Planning (3).
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. Prerequisite: PADM301 or permission.

PADM852 Seminar in Research Methods (3).
Introduces students to a variety of standard research methods. Deals with developing research instruments and analyzing research techniques. Prerequisites: STAT361 and completion of twenty-one graduate hours in M.P.A. degree.

PADM855 Master's Research Paper (3) P/NC.
For public administration students who are working on their research projects. Advanced standing as an M.P.A. student required for registration. Prerequisite: Permission of instructor.

PADM865 Problems in Applied Public Management (3).
A capstone course designed to draw upon all the knowledge and skills acquired in the curriculum. Students will complete a small number of major case studies in the format of management consultant's reports diagnosing, analyzing, and proposing solutions for actual or hypothetical organizations' problems. Prerequisites: Completion of M.P.A. required courses and PADM852.

PADM867 Practicum (3).
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. Requires both performance of the task(s) and completion of a major written report thereon, approved by three faculty members. A final course option of the M.P.A. program. Prerequisite: Permission.

PADM870 Independent Study: . . . (3).
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. Prerequisites: Permission of instructor and dean.

PADM880 Internship: . . . (3).
Designed to combine individual career counseling and work outside of the classroom in combination with institutional learning settings. Prerequisite: Permission.

PADM890 Graduate Thesis/Project: . . . (3) P/NC.
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. Prerequisite: Permission of advisor and/or committee.

Social Sciences

SOSC311 Survey of Social Science (3).
Offered as a correspondence course only. Examination of the organizing principles and methods of the basic social sciences.

SOSC450 Social Science Research: Design and Methodology (3).
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. Prerequisites: POLS301 and SOC301.

SOSC470 Independent Study: . . . (1-4).
Individual reading, research, and/or project in social sciences under the supervision of the faculty. Prerequisite: Permission.

SOSC480 Internship: . . . (1-4).
Designed to provide the social sciences student with supervised practical experiences in applied settings. Prerequisite: Permission.

SOSC490 Seminar: Values, Technology, and Social Change(3).
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. Prerequisite: Permission of instructor.

SOSC530 Urban Studies: Introduction to the City (3).
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.

SOSC550 Language in Cross-Cultural Analysis (3).
Provides a developing sensitivity and understanding of how cultures use language and symbol systems to structure their varying patterns of communication in their respective worlds. Prerequisite: Any 300-level social science course.
SOSC560 Computer Applications in Social Science Research (3).
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. Prerequisite: SOSC450.

SOSC601 Vietnam, A Television History (3).
Offered in televised format only. Provides a background on Vietnam and its people from 1945 to 1975. Analyzes societal and external influences on U.S. foreign policy in relation to the historical and political context of the period. Examines the impact of the war on American society.

SOSC801 Human Systems Change (3).
Covers philosophy and history of human systems change. Students present a diagnosis of a system strategy for change.

Social Work

SOCW320 Social Welfare Services and Professional Roles (3).
Explores the historical development and foundations of the field of social welfare, including major legislation. Professional concerns related to values, skills, knowledge, policies, programs, methods, practice, and licensing are analyzed. Prerequisite: Complete the American History requirement or permission of instructor.

SOCW350 Social Work Perspectives on Human Behavior (3).
Designed to help students to integrate and apply an ecological perspective and human behavior to professional social work practice situations. Explores systems thinking, human diversity, social science theory, and relevant physical science concepts. Prerequisite: SOCW320 or concurrent enrollment in SOCW320. Completion of the human biology, psychology, sociology, and anthropology requirements, or permission of instructor.

SOCW380 Social Work Practice: Ethics, Values, and Interviewing (3).
Designed to provide students with an in-depth examination of the generalist approach. Core social work values are explicated and explored in relation to practice situations. Students learn basic interviewing skills and core interactional skills. They also examine social work ethics. Prerequisites: SOCW320 and SOCW350. Corequisite: SOCW390.

SOCW390 Field Practicum and Proseminar I (3).
Provides students with an agency practice experience early in their program enabling them to become familiar with actual practice settings and assess career goals. An integrating seminar meets on campus weekly. Prerequisites: SOCW320 and SOCW350. Corequisite: SOCW380.

SOCW415 Field Practicum Assessment and Planning (1).
Students explore potential field placement sites, interview social work professionals, review generalist social work competencies, prepare biographical profiles, assess personal strengths and weaknesses, and plan for the practicum experience. This course is to be taken before enrolling in SOCW490. Prerequisites: Completion of all practice courses and permission of field practicum coordinator.

SOCW444 Social Work Practice: Intervention Strategies I (3).
Focuses on formulation and implementation of intervention at the small system level of individuals and families. Problem assessment, goal development, selection, and application of methods of intervention within the context of a generalist model. Prerequisites: SOCW380, and SOCW390.

SOCW445 Social Work Practice: Intervention Strategies II (3).
Examines the group, organization, and community from the perspective of the practitioner's use of self as a facilitator of group and social system processes and as a method of intervention and change. Emphasis will be placed on program design for mutual aid utilizing the general method of social work practice. Prerequisite: SOCW444 or permission of instructor.

SOCW455 Social Work Practice with Diverse Populations (3).
Emphasizes understanding of the experience of diversity, racism, sexism, and ageism as they affect life chances, lifestyles, and psychosocial development. Examines assumptions, myths, beliefs, and biases which block effective relationships between professionals and consumers. Identifies social work principles, values, and practice skills that promote successful working relationships. Encourages self-assessment and provides opportunities for application of learning. Prerequisites: Completion of eighteen hours in major field or permission of instructor.

SOCW459 Law for Human Service Professionals (3).
Includes the study of legal issues, procedures, and selected legislation relevant to professional practice in the human services. Examines the use of legal authority in the provision of services in the areas of income maintenance, justice, child protection, family services, divorce counseling, and other areas requiring knowledge of legal issues and processes. Prerequisites: Completion of twelve hours in major field or permission of instructor.
SOCW465 Research in the Health and Human Services (3).
Provides research orientation necessary for effective direct service and professional practice in the health and human services. Emphasizes being an intelligent consumer of research. Students are provided knowledge and strategies for measuring and evaluating their professional practice. Appropriate for students in social work, nursing, alcoholism sciences, and other health and human service programs. Prerequisite: STAT468 or equivalent.

SOCW470 Independent Study: . . . (1-8).
Individual reading, research, and/or project in social work under supervision of faculty. Prerequisite: Permission.

SOCW480 Internship: . . . (1-8).
Designed to provide students in social work with supervised practical experiences in applied settings. Prerequisite: Permission.

SOCW490 Field Practicum and Proseminar II (6).
Advanced 400 clock-hour practice experience designed for application and integration by students of principles, methods, and skills of the generalist model. Students are placed in an approved agency following successful completion of a practicum application process. Includes a seminar with other students in placement for sharing and synthesis of the field experience. Prerequisites: Open to social work majors only; completion of required social work courses, including SOCW415. Students must submit a completed practicum application to the field practicum coordinator at least twelve weeks before the trimester in which they plan to enroll in SOCW490.

SOCW500 Topics in Social Work: . . . (1-4).
Specific topics, issues, intervention, and service approaches, and new developments in social work and related areas are considered in a series of workshops. Opportunities for participants to have personal contact with noted social work scholars and practitioners are provided. Consult schedule for terms offered.

Social Welfare Policy: Issues and Processes (3)
Examination of social welfare policy perspectives particularly as they reflect values, interests, and political processes. Contemporary social service programs and policies are reviewed. Analysis models and strategies are reviewed and applied. Prerequisites: Complete the macroeconomics and political science requirements, or permission of instructor.

SOCW530 Urban Dynamics (3).
Offered in a televised format and as a correspondence course. Examines the metropolitan community as a complex environment in which most human services are delivered; explores and compares the interrelationship of urban forces, survey research, and community practice; and provides students with the experience of applying community theory to social problem analysis by developing and assessing community profiles for prioritizing community based services.

SOCW565 Interprofessional Teamwork in the Health and Human Services (3).
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 and agency situations. Field visits required. Students in other fields will also acquire useful knowledge and skills. Prerequisite: Completion of eighteen hours in major field.

SOCW570 Social Work in Health Care (3).
Focuses on how social workers in hospitals and clinics assist people in making better use of health care facilities, in preventing illness, in dealing with the impact of illness and disability on themselves and their families, and in preserving their health. Emphasizes the necessity for effective collaboration with other health professionals on interdisciplinary health teams for optimum services.

SOCW575 Social Services for Children (3).
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 on past and present services. Explores future planning of services for children.

SOCW595 Management and Supervision in the Human Services (3).
Examines the areas of management and human relations, especially from the social work perspective. The course integrates basic principles, concept processes from management and the humanizing of relations from the top level to the operations level of the human service delivery system.

Sociology

SOC301 Sociology of Institutions and Cultures (3).
Comprehensive analysis of concepts and methods of sociology applied to social issues and processes, characteristics of social organizations, issues in demography and geography, influence of culture, and principles of stability and change. Prerequisite: Introduction to sociology.
SOC310 Principles of Urban Studies (3).
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.

SOC470 Independent Study: .. (1-4).
Individual reading, research, and/or project in sociology under the supervision of the faculty. Prerequisite: Permission.

SOC51A Topics in Sociology: .. (3).
In-depth analysis of special issues in contemporary society from a sociological perspective will be the focus of this course. Guest lectures, field trips, and document analysis will supplement research and reading assignments. Projected topics include the family and state policy; late capitalism and the welfare state; contemporary sociological theory; and legal and social implications of reproductive technologies.

SOC522 Family History: Legacies (3).
Offered as a correspondence course only. An audio course on family history in the United States from 1607 to 1870. Each of eighteen half-hour audio programs covers a different topic in the history of women and families, with commentaries by leading scholars. Emphasizes the diverse experiences of ordinary people as it examines change in both the ideals and the reality of family life.

SOC525 Community Organization/Community Development (3).
Analyzes notions of power, community structure, community development, and their implications for community organization and renewal.

SOC540 Sociology of the Family (3).
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 between political issues and changes in family life.

SOC551 Sociology of Ethnic Relations (3).
Analyzes ethnicity as a dimension of social stratification and its implications for inter- and intra-group conflict.

SOC585 Work and Family Life (3).
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.

SOC805 Seminar: Sociological Theory (3).
Analyzes the contributions of major theorists and schools in sociology starting with Marx, Durkheim, and Weber and moving on to later developments in structural/functionalist, symbolic interactionist, neo-Marxian, phenomenological, ethnomethodological, exchange, and other theories. Prerequisites: Undergraduate course work in social theory, research, and methods.

SOC815 Seminar: Social Organizations and Institutions (3).
Examination of recent research on selected aspects of social organization (e.g., stratification) and institutions (e.g., religion, family, government). Prerequisite: SOC805 or permission.

SOC825 Seminar: Social Change and Modernization (3).
A historical examination of the processes of social change and modernization in American life. Particular emphasis on migration and mobility, family roles, and the growth of urbanization. Prerequisite: SOC805 or permission.

SOC835 Seminar: Sociological Research (3).
Course will cover theory construction literature from sociology, varieties of research involving human subjects, and substantive varieties of social research. SPSS and related programs will be utilized as tools for participating in directed research activities. Prerequisites: STAT468 AND SOC805; and either SOC815 or SOC825 or permission.

SOC870 Graduate Research: .. (1-4).
Individual reading or research in sociology under the supervision of the faculty. Prerequisite: SOC835 or permission.

SOC880 Internship: .. (1-4).
Designed to provide students in sociology with supervised, practical experiences in applied settings. Prerequisite: Permission.

SOC890 Graduate Thesis/Project (3).
Provides the student in sociology the opportunity to synthesize graduate course work by developing and completing a thesis or project specific to the student's interests. Prerequisites: Permission of advisor and thesis/project director and SOC870.

Special Education—
See Education—Special Education
Statistics

STAT361 Statistics for Management I (3).
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. Prerequisite: Intermediate algebra or passing computational examinations.

STAT362 Statistics for Management II (3).
A continuation of STAT361. Topics covered include analysis of variance, regression, correlation, time series, indexing, nonparametric statistics, bivariate distributions, and chi-square tests. Students make extensive use of a statistical computer package in the analysis of data and application of statistical tests as they apply in business situations. Prerequisite: STAT361.

STAT468 Statistics (3).
Offered in both lecture and televised formats. 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. Prerequisite: Satisfactory completion of university mathematics proficiency examination or intermediate or college algebra course with "B" or better.

STAT520 Statistical Methods (3).
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. Prerequisite: MATH325 or satisfactory completion of the university basic mathematics proficiency examination.

STAT611 Data Analysis in the Social Sciences Using SPSS (3).
An introduction to accessing and analyzing quantitative data for students in the social and behavioral sciences.

STAT820 Experimental Design for the Natural Sciences (4).
For graduate students of 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. Prerequisite: STAT520 and graduate standing.

STAT860 Advanced Statistics in Behavioral Science (3).
Reviews briefly regression analysis and one-way analysis of variance. Focuses on multiple regression and other analyses of variance. Prerequisite: STAT468.