

# Courses

The following course listing represents the University curricula as of the publication of this catalogue. Additions and changes to the offerings are published in the "Catalogue Supplement," printed in each semester's *Registration Bulletin*.

Not all courses are offered every semester. For current offerings consult the most current academic schedule and the *Guide to Course Requirements* during registration periods. See your academic advisors/department chair for additional information.

## Accounting (ACCT)

### 510. GRADUATE SURVEY OF ACCOUNTING 3 hours credit

Introduction to the principles of accounting for proprietorships, partnerships and corporations. Surveys current financial accounting principles, the accounting cycle and financial statements. **Prerequisite:** Provisional status in M.B.A. program. **Three hours per week.**

### 605. FINANCIAL ACCOUNTING THEORY 3 hours credit

Basic framework of accounting theory relating to income determination and funds flows. The basic problem of asset measurement, classification and the objective of financial reporting are presented along with the official and unofficial pronouncements of accounting societies and changes in accounting procedures. Basic understanding of the nature and development of accounting principles along with their application to current practice. **Prerequisite:** ACCT 403 or equivalent. **Three hours per week.**

### 608. ADVANCED AUDITING 3 hours credit

Addresses current issues in the technical, political, legal and economic environment which affect the public accounting profession's performance of its audit and attest function. **Prerequisites:** ACCT 407 or equivalent. **Three hours per week.**

### 615. GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING 3 hours credit

Covers the full range of accounting and reporting policies and procedures for state and local governments as well as for a variety of not-for-profit organizations. **Prerequisite:** ACCT 403 or equivalent. **Three hours per week.**

### 620. ADVANCED ACCOUNTING INFORMATION SYSTEMS 3 hours credit

Presents the underlying concepts of information management, with an emphasis on accounting applications and systems controls. **Prerequisites:** ACCT 420 or equivalent. **Three hours per week.**

### 630. INTERNATIONAL ACCOUNTING 3 hours credit

Introduces a variety of international accounting issues encountered by multi-national organizations. **Prerequisites:** ACCT 403 and 407 or equivalent. **Three hours per week.**

### 640. MANAGERIAL ACCOUNTING 3 hours credit

Study of the use by management of accounting information for planning and control. Includes budgeting, cash-flow analysis, cost behavior concepts, strategic planning and financial reporting. This course is for non-accounting majors. **Prerequisite:** Successful completion of the accounting program admission test. **Three hours per week.**

### 645. ADVANCED TAXATION AND PUBLIC POLICY 3 hours credit

Focus on foundation and application of tax policy and law for federal and state income taxation. Individual, business and fiduciary tax knowledge will allow the student to develop a tax awareness by developing an ability to recognize tax problem areas, pitfalls and planning opportunities. Local, state, federal and international taxation issues and current events of U.S. individuals and business entities coupled with expanding on tax research skills will prepare students for management decision making roles in the consulting or business world. **Prerequisite:** ACCT 342 or equivalent. **Three hours per week.**

### 650. ADVANCED MANAGERIAL ACCOUNTING 3 hours credit

Provides undergraduate accounting majors with advanced treatment of new and complex techniques and procedures integral to the design and implementation of managerial and cost control systems in a rapidly evolving technological environment. **Prerequisites:** ACCT 302 and 403, or equivalent and prior completion of undergraduate accounting degree or equivalent program or by permission of the chair of the Accounting Department. **Three hours per week.**

### 698. DIRECTED INDEPENDENT STUDY 1-3 hours credit

Individual tutorial course including accounting research topics not covered in other accounting courses. May be taken a maximum of two times (regardless of number of credits each time) under different subtitles recorded with the registrar. **Prerequisite:** Admission to M.B.A., written permission of the instructor and M.B.A. program director. **One to three hours per week.**

### 699. SPECIAL TOPICS IN ACCOUNTING 3 hours credit

Study of specific problems and issues in accounting not covered in other courses. May be taken twice (maximum number of credit is six) under different subtitles recorded with the registrar. **Prerequisite:** Admission to the M.B.A. program accounting track and permission of the instructor. **One to three hours per week.**

## Anthropology (ANTH)

### 400. INDIVIDUAL DIRECTED STUDY 3 hours credit

Advanced study in an area of anthropology through intensive literature and/or field research. May be repeated once under different subtitles. May not be taken by students who have completed SOCI 416 with an anthropological topic. **Prerequisites:** ANTH 212 or SOCI 212.

**450. COMPARATIVE CULTURES** 3 hours credit  
Cross-cultural survey of primitive societies with emphasis on human social differences and their meaning. Examples drawn from Africa, Asia, North and South America and Oceania. Focus on cultural diversity with references to varying marital, religious, economic, family and social problems. May not be taken by students who have completed SOCI 452. **Prerequisite:** ANTH 212 or SOCI 212. **Three hours per week.**

**459. SEMINAR IN ANTHROPOLOGY** 3 hours credit  
Review of current research and publication in the four subdisciplines of anthropology (cultural anthropology, physical anthropology, linguistic anthropology, archaeology/prehistory). May not be taken by students who have completed SOCI 459. **Prerequisite:** ANTH 212 or SOCI 212. **Three hours per week.**

## Applied Health Physiology (AHPH)

**502. INTRODUCTION TO RESEARCH** 3 hours credit  
Methods of investigating physiological mechanisms within the human clinical context; development of skills for producing as well as consuming research by proposing a research plan. **Prerequisite:** Admission to program. **Three hours per week.**

**534. HUMAN PSYCHOPHYSIOLOGY** 3 hours credit  
Study of the interrelationships between the mind and body. Examination of current research and historical views on the interaction of physiological processes and psychological function. **Prerequisite:** BIOL 552. **Three hours per week.**

**537. HEALTH APPRAISAL AND TESTING WITH EMERGENCY PROCEDURES** 3 hours credit  
Study of health screening techniques, fitness testing and emergency procedures. Students will be certified in advanced cardiac life support. **Prerequisite:** Community CPR. **Three hours per week.**

**542. EXERCISE PROGRAMMING, NUTRITION AND WEIGHT CONTROL** 3 hours credit  
Study of exercise programming guidelines as established by the American College of Sports Medicine. A strong focus is placed upon nutrition and weight control in conjunction with exercise prescription recommendation for a variety of clinical populations. Students gain practical experience in developing exercise programs for individuals with various conditions. **Prerequisites:** Admission to program. **Three hours per week.**

**544. PHARMACOLOGICAL ASPECTS OF CLINICAL PHYSIOLOGY** 3 hours credit  
Examination of the physiological mechanisms involved in the clinical treatment of individuals with medications. Emphasis placed on the pharmacological influence on therapeutic exercise program design, monitoring techniques and patient outcomes. **Prerequisite:** AHPH 537, 542, BIOL 552. **Three hours per week.**

**545. CARDIOPULMONARY ASPECTS OF PHYSIOLOGY** 3 hours credit  
Study of cardiopulmonary physiology with an emphasis on gas transport, fluid and electrolyte balance, acid-base regulation, response to exercise and training adaptations. **Prerequisite:** Admission to program. **Three hours per week.**

**546. HUMAN DEVELOPMENT AND AGING IN POPULATIONS WITH CHRONIC DISEASE** 3 hours credit  
Study of the pathophysiology and psychosocial aspects of aging populations with Chronic Obstructive Pulmonary Disease (COPD) and those with Coronary Artery Disease (CAD). Examination of the deleterious effects of COPD and CAD on physical and psychological functioning. Emphasis on cardiac/pulmonary rehabilitation as a mechanism to enhance quality of life in populations with COPD and/or CAD. **Prerequisite:** AHPH 537, BIOL 552. **Three hours per week.**

**553. CLINICAL PHYSIOLOGY** 3 hours credit  
Study of common lab techniques used in physiologic health screening, fitness testing and research. Emphasis on cardiorespiratory and musculoskeletal procedures. **Three hours per week.**

**562. TRENDS AND ISSUES IN PHYSIOLOGY** 3 hours credit  
In-depth examination of current literature in physiological journals. Emphasis placed upon critical review of research in regards to methodology, data interpretation and conclusions derived from data. **Prerequisite:** Admission to program. **Three hours per week.**

**690. FIELD EXPERIENCE IN CLINICAL PHYSIOLOGY** 3 hours credit  
Culminating experience to complete training in clinical physiology. Students work in a clinical setting under the direct supervision of a certified health care provider. **Prerequisite:** AHPH 502, 534, 537, 542, 544, 545, 562 and BIOL 552. **Six hours per week.**

## Art (ART)

**490. INDEPENDENT STUDY** 1-3 hours credit  
Provides directed study in one or a combination of studio disciplines. May be repeated once under a different subtitle. Students must furnish their own materials. **Prerequisites:** Approval of department chair prior to registration.

**500. SEMINAR: ISSUES IN ART** 3 hours credit  
Discussions and research concerning timely topics in art, including direct student participation and faculty lectures. Topics may vary from semester to semester. May be repeated once for degree credit under different course subtitle. **Prerequisite:** Consent of instructor. **Four hours per week.**

## Biology (BIOL)

**401. WETLAND ECOLOGY** 4 hours credit  
Study of relationships between environmental features and the structure and function of wetland types. Emphasizes hydrology, chemistry and plant species distribution and examines effects of disturbance on wetland ecosystems. **Prerequisites:** BIOL 225; BIOL 202: Marine Botany (UMES) strongly recommended. **Three hours lecture, three hours laboratory per week.**

**405. ORNITHOLOGY** 3 hours credit  
Study of birds. Topics include form and function, behavior and communication, reproduction, migration, ecology and conservation. Field trips emphasize identification and natural history of local species. **Prerequisite:** BIOL 225. **Three hours lecture per week.**

**407. THE BIOLOGY OF FISHES** 3 hours credit  
Study of evolution, anatomy, physiology, classification, ecology and behavior of the fishes. Addresses current research and future directions in ichthyology. **Prerequisites:** BIOL 122, 225. **Three hours lecture per week.**

**410. ESTUARINE BIOLOGY** 3 hours credit  
Study of estuarine biology with a focus on the Chesapeake Bay. Detailed discussion of the biota of the bay, its unique biology and current perturbations due to environmental pollution. Introduction to physical and chemical processes of estuaries. **Prerequisite:** BIOL 225; BIOL 321 strongly recommended. **Two hours lecture, two hours laboratory per week.**

**415, 416. RESEARCH IN BIOLOGY** 3 hours credit each  
Independent student research under the supervision of a faculty member. BIOL 416 may not be used to satisfy requirements

within the major. **Prerequisite:** Consent of instructor. **Schedule to be arranged individually.**

**418, 419. BIOLOGY SEMINAR 1 hour credit each**  
Discussions of timely topics in biology and related fields. Includes instruction in seminar preparation and requires student presentations and participation. BIOL 419 may not be used to satisfy course requirements within the major. **Prerequisite:** Consent of instructor. **One hour per week.**

**422. VERTEBRATE PHYSIOLOGY 4 hours credit**  
Study of the physiological mechanisms utilized by plants, with special reference to the higher phyla. **Prerequisites:** BIOL 122, CHEM 121. **Three hours lecture, three hours laboratory per week.**

**430. PLANT PHYSIOLOGY 4 hours credit**  
Advanced study of the physiological mechanisms utilized by plants with special reference to the higher phyla. **Prerequisites:** BIOL 121, CHEM 221. Organic Chemistry highly recommended. **Three hours lecture, three hours laboratory per week.**

**440. CONTEMPORARY GENETICS 3 hours credit**  
Advanced study of molecular genetic engineering processes. **Prerequisites:** BIOL 350, CHEM 221. **Three hours lecture per week.**

**445. VIROLOGY 3 hours credit**  
Study of structure, replication and pathogenesis of viruses with emphasis on animal viruses and the role of viruses in our current understanding of cell and molecular biology. **Prerequisite:** BIOL 350. **Three hours lecture per week.**

**490. SPECIAL TOPICS IN BIOLOGY 1-4 hours credit**  
Study of a specific area of biological science. Topic varies semester to semester. May be taken twice for credit under different subtitles. **Prerequisites:** Sixteen hours of biology, approval of instructor.

**501. MODERN CONCEPTS IN BIOLOGY 3 hours credit**  
Study of the most recent developments in biology, with special emphasis on genetics, animal behavior and sociobiology. May be taken twice, under different course subtitles recorded with the registrar. **Prerequisites:** BIOL 101 or 121 and 122, and completion of the biology core program or equivalent. **Three hours lecture per week.**

**502. BIOLOGY AND ENVIRONMENT 3 hours credit**  
Study of organisms as integral parts of their environments, including field studies involving applications of environmental principles. **Prerequisites:** BIOL 101 or 121 and 122, and completion of the biology core program or equivalent. **Two hours lecture, two hours laboratory per week.**

**503. CONTEMPORARY CELL BIOLOGY 3 hours credit**  
Intensive study of the latest findings in cell biology, with application to the pressing problems of today. **Prerequisite:** One year of chemistry. **Three hours lecture per week.**

**504. PERSPECTIVES IN MODERN GENETICS 3 hours credit**  
Intensive study of modern genetics for the advanced student. Findings in molecular, cellular and developmental genetics related to classical genetic theory and current problems. **Prerequisite:** One year of chemistry. **Three hours lecture per week.**

**552. ADVANCED HUMAN PHYSIOLOGY 3 hours credit**  
In-depth study of the physiology and associated anatomic structures of human organ systems. Topics include the cell and the nervous, muscular, circulatory, endocrine, digestive and excretory systems, with separate attention to temperature

regulation. **Prerequisite:** B.S. in biology, health related field or education with biology emphasis. **Three hours lecture per week.**

## Business Administration (BUAD)

**530. GRADUATE SURVEY OF QUANTITATIVE ANALYSIS 3 hours credit**  
Introduction to the decision-making tools and techniques for making operational, administrative and upper management-level decisions. Mathematical and statistical models applied to managerial decision-making situations. **Prerequisites:** Provisional status in M.B.A. program and MATH 150, COSC 110 and ISMN 111 (or equivalents). **Three hours per week.**

**535. HEALTH CARE FINANCE 3 hours credit**  
Introduction to financial management in the health care environment. Designed for nurse/managers, this course covers financial accounting and analysis, financial management (including the mathematics of finance), cost accounting, budgeting, control systems, forecasting, working capital management and third party reimbursements. **Three hours per week.**

**540. GRADUATE SURVEY OF FINANCE 3 hours credit**  
Comprehensive course in modern financial management. Includes financial theories, working capital management, capital acquisition, international finance, mergers and acquisitions, bankruptcy and reorganization and leasing. M.B.A. leveling course. **Prerequisite:** Provisional status in M.B.A. program and BUAD 510, 520, 530 or equivalent. **Three hours per week.**

**550. GRADUATE SURVEY OF MANAGEMENT 3 hours credit**  
Study of the interrelationship of various management functions: principles of general management, production management, management information systems and management of international operations. Introduces various schools of management, modern organizational theories and the elements of decision-making. M.B.A. leveling course. **Prerequisite:** Provisional status in M.B.A. program. **Three hours per week.**

**560. GRADUATE SURVEY OF MARKETING 3 hours credit**  
Examination of markets and marketing functions responding to a dynamic environment. An overview of domestic and international marketing functions and institutions adapting to social, economic, legal and technical change. Special emphasis will be placed on the ramifications of consumerism and regulation of marketing activities. M.B.A. leveling course. **Prerequisite:** Provisional status in M.B.A. program. **Three hours per week.**

**615. RESEARCH METHODOLOGY 3 hours credit**  
Designed to develop techniques and methods for research. Includes identifying and defining managerial problems, reviewing the literature and stating problems in terms of testable hypotheses and methods of testing hypotheses. Major research paper required. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**620. ORGANIZATIONAL THEORY 3 hours credit**  
Development of a framework for understanding the modern business enterprise. Includes a review of management thought and organizational theory, the functions of management and recent trends in management theory and practice in the U.S. and abroad. The contributions of behavioral science, management science, systems theory, contingency theory and other relevant theories are examined. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**625. ORGANIZATIONAL BEHAVIOR SEMINAR** 3 hours credit  
Study of individual and group behavior in organizational structures to understand the interaction of managers with other members of the organization. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**635. EXTERNAL ENVIRONMENT OF THE ORGANIZATION** 3 hours credit  
Study of the environmental forces which influence the organization. Includes identification and measurement of external forces and effects on management decisions. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**650. CORPORATE FINANCIAL MANAGEMENT** 3 hours credit  
Review of financial theory and techniques. Topics include long-term investment decisions, capital structure and dividend policy, long-term financing decisions, financial analysis and planning, short-term financial management, and multinational financial management. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**660. MARKETING STRATEGY** 3 hours credit  
Study of classic and contemporary marketing strategies for both profit and nonprofit organizations. Considers the organizational-environmental interface as a shaping factor in planning and implementing the marketing mix. Emphasis placed on planning in dynamic domestic and international environments. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**661. CONSUMER AND BUYER BEHAVIOR** 3 hours credit  
Studies the process of customer decision-making, consumption and post-consumption activities. Both internal and external influences on those processes are examined to provide an overall foundation of buyer behavior. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**662. PROMOTIONAL STRATEGY** 3 hours credit  
Examines the development of promotional strategy. Advertising, sales promotion, personal selling and publicity are explored. Emphasis on planning, designing and implementing promotional strategies. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**665. ENTREPRENEURSHIP** 3 hours credit  
Analyzes organized and systematic entrepreneurship in new enterprises, established large enterprises and non-business institutions. Emphasis is on applying concepts and techniques from the functional areas of business to the new venture development environment in independent and corporate settings. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**670. MANAGEMENT SCIENCE MODELS** 3 hours credit  
Study of rational decision-making in a computer-assisted environment. Topics include decision theory, linear programming, distribution models, inventory and project management. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**680. CORPORATE STRATEGIC PLANNING AND POLICY** 3 hours credit  
Capstone course focusing on critical issues affecting the success of the total enterprise in domestic and multinational environments. Emphasis on the functions, responsibilities and ethical values of top managers as they determine the direction of the organization and shape its future. Strategy is the unifying theme in case discussions. **Prerequisite:** Completion of 12 semester hours at the 600 level in SSU's M.B.A. program, including either ACCT 640, 650 or BUAD 650. To be taken in the final semester before graduation. **Three hours per week.**

**685. INTERNATIONAL BUSINESS SEMINAR** 3 hours credit  
Study of international aspects of business management and the environment of international business. Topics selected from international finance, the economics of international finance, the economics of international trade, environmental factors (e.g., cultural, legal, political) and the major aspects of business operations in the global environment (including accounting, human resource management, marketing, production and strategic management). **Prerequisite:** Admission to M.B.A. program. May be taken up to three times under different subtitles recorded with the registrar. **Three hours per week.**

**686. GLOBAL BUSINESS** 3 hours credit  
Study of the global aspects of business within its environment. Topics selected from international finance, the economics of international trade, environmental factors (e.g., cultural, legal, political) and the major aspects of business operations within its global environment (including accounting, human resource management, marketing, production and strategic management). Part or all of the course will be held in another country. **Prerequisites:** Admission to M.B.A. program. **Three hours per week.**

**698. DIRECTED INDEPENDENT STUDY** 1-3 hours credit  
Individual tutorial course including research topics not covered in other courses. May be taken twice under different subtitles recorded with the registrar. **Prerequisite:** Admission to M.B.A. program, written permission of instructor and M.B.A. program director.

**699. SPECIAL TOPICS IN BUSINESS** 1-3 hours credit  
Study of specific problems and issues in business administration. May be taken twice under different subtitles recorded with the registrar. **Prerequisite:** Admission to M.B.A. program. **One to three hours per week.**

## Chemistry (CHEM)

**423. EXPERIMENTAL PHYSICAL CHEMISTRY I** 2 hours credit  
Laboratory and report-writing course emphasizing classical experiments in physical chemistry. **Prerequisite/corequisite:** CHEM 342. **Two hours lecture, two hours laboratory per week.**

**424. EXPERIMENTAL PHYSICAL CHEMISTRY II** 2 hours credit  
Laboratory-based course emphasizing the theory and applications of modern instrumental methods. **Prerequisite/corequisite:** CHEM 423. **Two hours lecture, two hours laboratory per week.** (in spring of even-numbered years)

**499. SPECIAL TOPICS IN CHEMISTRY AND PHYSICS** 3 hours credit  
Study of a specific area of chemistry. Topic varies semester to semester. May be taken twice for credit. **Three hour lecture per week/laboratory-lecture equivalent.**

**599. SPECIAL TOPICS IN CHEMISTRY** 3 hours credit  
Study of a specific area of chemistry. Topics vary from semester to semester. May be taken twice for credit under different subtitles recorded with the registrar. Lab-lecture equivalent.

## Communication Arts (CMAT)

**400. ADVANCED COMMUNICATIONS THEORY** 3 hours credit  
Selected philosophies and theories of human communication encompassing structures, forms and contexts of communication, which include cultural contexts, assumptive bases and world views of theories and theorists. **Prerequisites:** CMAT 200 and junior standing. **Three hours per week.**

**453. CREATIVE DRAMATICS** **3 hours credit**  
 Emphasis on the manner in which creative dramatics assists in the growth of the child. Considers creative dramatics as a motivating factor in the teaching and learning process. **Three hours per week.**

**490. SPECIAL TOPICS IN COMMUNICATION** **1-3 hours credit**  
 Intensive study of a selected topic in speech, communication studies or theatre. May be taken twice under different course subtitles recorded with the registrar. **Prerequisite:** Consent of instructor.

**500. ORAL READING AND THE TEACHING OF LITERATURE** **3 hours credit**  
 Designed to lead the student to an awareness of literature through the performing self to reinforce the concept that one's physiological and psychological processes are bound together in the act of understanding what stories and poems mean. **Three hours per week.**

**510. SEMINAR IN INTERPERSONAL COMMUNICATION** **3 hours credit**  
 The investigation of speech-communication from the point of view of conflict, manipulation, barriers and breakdowns—factors which undermine human potential for optimum reciprocal social intercourse. **Three hours per week.**

**645. ORGANIZATIONAL COMMUNICATION** **3 hours credit**  
 Designed to improve a manager's effectiveness in communicating on both an interpersonal and systems level. Topics include dissemination of information, writing style and format. Includes theories and models in communication. Emphasis on solving business communication problems. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

## Computer Science (COSC)

**422. ORGANIZATION OF PROGRAMMING LANGUAGES** **3 hours credit**  
 Organization of programming languages, with emphasis on their formal specifications and on the run-time behavior of programs. **Prerequisite:** COSC 350. **Three hours per week.**

**450. OPERATING SYSTEMS** **3 hours credit**  
 Analysis of the operating system, the program which supervises the activity of the computer. Study of processes, interprocess communication, scheduling, I/O systems, deadlock, file systems, memory management, security/protection mechanisms and resource allocation. **Prerequisite:** COSC 350. **Three hours per week.**

**490. SPECIAL TOPICS** **3 hours credit**  
 Seminar course with content that varies semester to semester (e.g., artificial intelligence, compiler construction or other topics suggested by faculty or students). May be taken twice under different titles recorded by the registrar. **Prerequisite:** (for most topics) COSC 350. **Three hours per week.**

**501. COMPUTER SCIENCE FOR MATH AND SCIENCE TEACHERS** **3 hours credit**  
 Study of microcomputers, advanced programming concepts and other topics appropriate to secondary school teachers of mathematics and science. **Prerequisites:** Ability to design and write clear programs; COSC 120.

## Economics (ECON)

**520. GRADUATE SURVEY OF ECONOMICS** **3 hours credit**  
 Introduction to the macro- and micro-economic principles. Examines the constraints and choices imposed on the firm by

resource limitations, technology, the domestic and international competitive environments, the growth and stability of aggregate income and a wide range of public policies. The rationale for policies to modify or augment private production and spending decisions will be considered. M.B.A. leveling course. **Prerequisites:** Provisional status in M.B.A. program and MATH 150 and 151, COSC 110 and ISMN 111 (or equivalents). **Three hours per week.**

**630. ECONOMIC ENVIRONMENT OF THE ORGANIZATION** **3 hours credit**  
 A study of the structure of the financial system and its evolution, money and banking financial institutions, financial capital, the role of the Federal Reserve, and the macroeconomic forces that shape the economy. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

**631. MANAGERIAL ECONOMICS** **3 hours credit**  
 Builds upon basic economic principles by addressing specific concerns of managers, such as pricing, forecasting and production decisions. Presents theoretical and empirical analysis of factors affecting behavior of business costs and revenues. **Prerequisites:** Admission to M.B.A. program. **Three hours per week.**

## Education (EDUC, ELED, SCED, EDAD)

**419. TEACHING MUSIC IN THE ELEMENTARY SCHOOL** **3 hours credit**  
 Techniques for teaching music in the elementary school; study of the child voice; appropriate singing, listening, rhythmic, instrumental and creative activities; remedial work for poor singers; activities for musically talented children; comprehension overview of music materials and their application to the elementary school curriculum. **Prerequisites:** Admission to Professional Teacher Education Program, MUSC 200/equivalent. **Three hours per week.**

**425. TEACHING READING COMPREHENSION: RESEARCH FINDINGS AND STRATEGIES FOR INSTRUCTION** **3 hours credit**  
 Elective in reading education. Investigates contemporary research relating to the development of reading comprehension, procedures for assessing reading comprehension competencies and teaching strategies to improve comprehension. Designed for elementary, middle school, reading and resource teachers. **Prerequisites:** Admission to Professional Teacher Education Program, either EDUC 316, 420 or 422. **Three hours per week.**

**429. TEACHING MUSIC IN THE SECONDARY SCHOOL** **3 hours credit**  
 Methods and materials of music teaching in grades 7-12. Emphasis on vocal, instrumental and general music. **Prerequisites:** MUSC 200, admission to Professional Teacher Education Program.

**432. LITERACY AND ESOL READING** **3 hours credit**  
 Introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics include models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**443. LITERACY AND ESOL WRITING** **3 hours credit**  
 Introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics include writing

theory, writing strategies, evaluating writing, and writers and rhetorical concerns. Students develop a literacy project, writing materials for specific ESOL students. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**454. COMPOSITION: CURRICULUM AND METHODS 3 hours credit**

Study of the emergence of contemporary curriculum for teaching writing with emphasis on contributing models. Design of instructional materials which employ a range of methods within a "writing process" framework and promote the use of writing to teach academic content. Lecture, discussion, design and analysis of instructional materials, microteaching and instructional analysis. **Prerequisite:** At least one course in composition beyond ENGL 101. **Three hours per week.**

**472. THEORY AND PRACTICE OF TEACHING ADULTS 3 hours credit**

For upper-division students in any discipline seeking information about contemporary methods of effective adult instruction. Assumes no prior knowledge about educational methods, theories or practices. **Three hours per week.**

**475. METHODS AND MATERIALS IN ENVIRONMENTAL EDUCATION 3 hours credit**

Increases students' awareness of their immediate environment with the aim of developing a broad philosophy of environmental education. Existing teaching methods and materials analyzed and new methods developed for use in interdisciplinary, problem-focused situations. **Three hours per week.**

**490. SPECIAL PROBLEMS AND PRACTICES IN EDUCATION 1-6 hours credit**

Individually designed programs including seminars, workshops and courses in curriculum development, planning, evaluation, specialized areas of study for purposes of enrichment, in-depth study of special problems and/or professional practices in education. May be taken twice under different subtitles. **Prerequisite:** Admission to professional program or permission of department chair.

**495. SPECIAL PROBLEMS AND PRACTICES IN ART EDUCATION K-12 3 hours credit**

For individually designed classroom programs in education, including seminars, workshops, curriculum development, daily planning, evaluation and art study projects. Students furnish some materials. Recommended for senior undergraduate or graduate credit. May only be taken once for credit.

**500. HISTORICAL, PHILOSOPHICAL AND SOCIAL FOUNDATIONS 3 hours credit**

Selected topics in intellectual and educational history from the time of ancient Greece to the present. The relation of education to historic traditions and social trends. **Three hours per week.**

**502. INTRODUCTION TO RESEARCH 3 hours credit**

Introduction to quantitative and qualitative methods of scientific inquiry. Students gain experience in the use of research in defining a problem and in collecting, organizing and presenting information on it. **Three hours per week.**

**503. CLASSROOM MANAGEMENT 3 hours credit**

Aids teachers in developing practical skills needed to manage their classes more effectively. Recent research related to effective management techniques and its application in classrooms will be considered. Appropriate management strategies will be selected, implemented and evaluated in the classroom. **Three hours per week.**

**504. MULTICULTURAL EDUCATION 3 hours credit**

Examination of contemporary cultural diversity within the United States educational environments. Special attention given to cultural problems and issues that influence opportunities and performance in educational institutions. Human relations skills

considered for improving success within culturally diverse populations. **Prerequisite:** EDUC 502. **Three hours lecture per week.**

**506. SEMINAR IN TEACHING OF MATHEMATICS 3 hours credit**

Analysis of recent theory and results of research for the teaching of mathematics. Students investigate developments at either the elementary or secondary school level. **Three hours per week.**

**507. TESOL INTERNSHIP I 3 hours credit**

One full-time, seven week clinical experience provides opportunity to actualize the latest educational research and theory into practice, including, but not exclusive to: observation, mini-teaching, macro-teaching, whole group lessons and action research. Conducted under the direct supervision of a clinical supervisor. **Prerequisite:** Completion of all course work in the M.A./TESOL certification sequence prior to the internship, with an overall program GPA of 3.0; passing scores on Praxis I. **Corequisite:** EDUC 511. **Three hours per week.**

**508. SEMINAR: RESEARCH IN HUMAN DEVELOPMENT 3 hours credit**

Survey of research techniques and findings in the field of human growth and development. Research related to developmental characteristics of students considered. **Prerequisite:** EDUC 300 or consent of instructor. **Three hours per week.**

**509. TESOL INTERNSHIP II 3 hours credit**

One full-time, seven week clinical experience provides opportunity to actualize the latest educational research and theory into practice, including, but not exclusive to: observation, mini-teaching, macro-teaching, whole group lessons and action research. Conducted under the direct supervision of a clinical supervisor. **Prerequisite:** Completion of all course work in the M.A./TESOL certification sequence prior to the internship, with an overall program GPA of 3.0; passing scores on Praxis I. **Corequisite:** EDUC 511. **Three hours per week.**

**510. SEMINAR: RECENT ISSUES IN EDUCATION 3 hours credit**

Analysis of selected issues in education. Students required to survey and critically evaluate pertinent research on at least one issue. **Three hours per week.**

**511. TESOL INTERNSHIP SEMINAR 3 hours credit**

Forum for discussing problems encountered during the internship. Colloquium for developing strategies to resolve problems. **Prerequisite:** Completion of all course work in the M.A./TESOL sequence prior to the internship and passing scores on the Praxis I. **Corequisite:** EDUC 507, 509. **Three hours per week.**

**512. SEMINAR IN THE TEACHING OF SOCIAL STUDIES 3 hours credit**

Analysis of theory and research in the social sciences as applied to developing and teaching social studies at either the elementary or secondary school level. **Three hours per week.**

**513. SEMINAR IN THE TEACHING OF SCIENCE 3 hours credit**

Analysis of recent advances in the teaching of science and the development of skills in applying these to classroom teaching at the elementary or secondary school level. **Three hours per week.**

**514. CURRICULUM CONSTRUCTION 3 hours credit**

Study of the factors underlying the public school curriculum and its development. Opportunities are provided for individual research in curriculum construction at either the elementary or secondary school level. **Three hours per week.**

**515. EASTERN SHORE WRITING PROJECT  
SUMMER INSTITUTE 6 hours credit**

Explores current theories about the composing process and their implications for teaching writing and using writing to teach other content areas. Focuses on adapting and evaluating classroom activities for different grade levels and educational settings. Cross-listed with ENGL 515. **Prerequisite:** Consent of the instructor.

**516. PUBLIC SCHOOL ADMINISTRATION 3 hours credit**

Analysis of the responsibilities of the school administrator, including procedures for staff organization, in-service training, curriculum development, scheduling, guidance and other facets of school administration. **Three hours per week.**

**517. PUBLIC SCHOOL SUPERVISION 3 hours credit**

Study of the nature, methods and techniques of public school supervision, emphasizing human relationships and other factors involved in the role of the supervisor. **Prerequisite:** EDUC 516. **Three hours per week.**

**519. THE LAW AND PUBLIC EDUCATION 3 hours credit**

Study of school law which affects the teacher and the public school. Nature and scope of school law considered as generally applied to the purpose and functions of the school system. **Three hours per week.**

**520. THE DIAGNOSIS OF READING  
DISABILITIES 3 hours credit**

Designed for professional personnel seeking specialization in clinical diagnostic techniques. Includes data collection and analysis of reading behavior and examines various instruments and strategies for collection of data on children with reading disabilities. **Three hours per week.**

**521. THE REMEDIATION OF READING  
DISABILITIES 3 hours credit**

Designed for professional personnel seeking specialization in clinical-remedial techniques. Includes transfer of diagnostic data into teaching strategies and materials for programs of remediation. **Prerequisite:** EDUC 520. **Three hours per week.**

**522. CLINICAL PRACTICUM IN READING 3 hours credit**

Designed for professional personnel seeking advanced work in clinical, diagnostic and remedial techniques. Includes diagnosis and remediation of children with severe reading disabilities. Emphasizes collection and analysis of test data and development of instructional programs for the severely disabled. **Prerequisite:** EDUC 521. **Three hours per week.**

**523. ADVANCED SEMINAR IN READING  
EDUCATION 3 hours credit**

Survey of the literature in reading education dealing with trends, needs and future directions in such topics as early identification, diagnostic techniques, remediation, severe reading disabilities, linguistics, learning modalities and others. **Prerequisite:** EDUC 522. **Three hours per week.**

**526. SEMINAR: MEDIA, TECHNOLOGY AND  
INSTRUCTIONAL SYSTEMS 3 hours credit**

Seminar designed to acquaint students with the dynamics of media, technology and instructional systems via required outside readings and in-class discussions; and involve students in an in-depth investigation of a pertinent topic selected in consultation with the instructor. Paper required. **Prerequisite:** EDUC 407 or equivalent, EDUC 502 and consent of instructor. **Three hours per week.**

**528. ESOL TESTS AND  
MEASUREMENTS 3 hours credit**

Introduces students to present-day language theory and practice. The objectives are not only to increase students' skill in writing classroom language tests and assessing standardized instruments, but also to improve their ability to

evaluate language research in which testing plays a part. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**530. DIRECTED RESEARCH 3 hours credit**

Preparation of optional research project in master's degree program under direction of departmental supervision.

**532. CLASSROOM ASSESSMENT 3 hours credit**

Examination of the role of evaluation in assessing classroom learning. Evidence of student learning gathered from traditional and alternative assessment practices. Benefits and limitations of these assessment practices identified. **Three hours per week.**

**533. FOUNDATIONS OF EARLY CHILDHOOD  
EDUCATION 3 hours credit**

Explores the historical and philosophical foundations of early childhood education. Includes an introduction to curriculum and methods with an emphasis on theories, practices, strategies and materials. **Three hours per week.**

**534. EARLY CHILDHOOD CURRICULUM  
AND ASSESSMENT 3 hours credit**

Analysis of early childhood program models, curricula and assessment methods. Examines philosophical and theoretical orientations, related research and societal needs. **Prerequisite:** EDUC 502. **Three hours per week.**

**536. CREATIVITY IN EARLY CHILDHOOD  
EDUCATION 3 hours credit**

In-depth study of the creative process and the techniques that will promote creativity. **Three hours per week.**

**537. SEMINAR IN EARLY CHILDHOOD  
EDUCATION 3 hours credit**

Critical evaluation of developments occurring in early childhood education, as well as antecedents of modern practices. Review of pertinent research influencing shifts in ideas, practices and policies. **Three hours per week.**

**538. LANGUAGE DEVELOPMENT IN  
EARLY CHILDHOOD 3 hours credit**

Advanced study of the development of language, literacy and communication skills in children, birth through age eight. Examines current issues and research with emphasis on classroom application. **Prerequisite:** EDUC 502. **Three hours per week.**

**545. LEARNING AND INSTRUCTION IN  
THE SCHOOLS 3 hours credit**

Identification of classroom problems and issues related to and involving instruction; the development and application of strategies to aid in resolving issues and solving problems; and the coordination of student characteristics and environmental factors to improve the quality of learning experiences in the schools. **Three hours per week.**

**547. ESOL METHODS 3 hours credit**

The study of philosophy, aims and methods of teaching English as a second language in grades 1-12 with emphasis upon theories, techniques and materials in current use. Graduate scholarship expected. **Prerequisite:** Admission to the M.A./TESOL program; completion of four program courses at graduate level, to include ENGL 439; must successfully pass Praxis I. **Three hours per week.**

**550. LEADERSHIP AND CHANGE 3 hours credit**

Study of leadership dimensions necessary for establishing purposes and goals conducive to school effectiveness. Investigates collaborative and individual leadership roles and behaviors that will influence productivity and achievement and change and foster a positive educational climate. **Prerequisite:** EDUC 516. **Three hours per week.**

**551. EVALUATION RESEARCH APPLICATIONS  
IN SCHOOL ADMINISTRATION 3 hours credit**

Examination of the use of evaluation research as a basis for decisions about educational programs, products and goals. Students develop and carry out plans that use quantitative and qualitative methods to evaluate school-based problems. **Prerequisite:** EDUC 502. **Three hours per week.**

**552. GROUP DYNAMICS IN SCHOOL  
ADMINISTRATION 3 hours credit**

Study of the individual and group development within educational settings. Emphasis on research, theory and practice of leadership styles, decision-making processes, adult development and communication, and ethics in educational organizations. **Prerequisites:** EDUC 516, 517. **Three hours per week.**

**553. FINANCIAL MANAGEMENT IN  
SCHOOL ADMINISTRATION 3 hours credit**

Provides general knowledge of the basis of financial support for schools. **Prerequisite:** EDUC 516. **Three hours per week.**

**554. PERSONNEL ADMINISTRATION IN  
EDUCATION 3 hours credit**

Focus on the leadership role in managing and developing human resources in school settings. Explores the legal bases of personnel management as central to personnel selection, assignment, evaluation, improvement and possible termination. Also addresses bargaining practices and contract management. **Prerequisite:** EDUC 516. **Three hours per week.**

**555. INTERNSHIP IN SCHOOL  
ADMINISTRATION/SUPERVISION 3 hours credit**

Provides experience in administrative and/or supervisory activities in actual educational settings. Students must apply for internship approval four weeks prior to the beginning of the course. **Prerequisites:** All courses in the M.Ed. in administration/supervision program sequence. **Three hours per week.**

**556. PRACTICUM IN SCHOOL ADMINISTRATION  
AND SUPERVISION 3 hours credit**

Practice in administrative and supervisory problem-solving using simulations and case studies. Offered as an alternate to EDUC 555. **Prerequisite:** All courses in the M.Ed. in administration/supervision program sequence. **Three hours per week.**

**557. SCHOOL-COMMUNITY RELATIONS 3 hours credit**

Focuses on the role and responsibility of school leaders in communication with the public and in building support for the school. Application of the principles of motivation and publicity, promotion and marketing are taken into account as the student practices the development of a variety of examples of communication instruments. Strategic planning concepts are applied to the development of a comprehensive plan for school-community relations in a setting of the student's own choosing. **Prerequisite:** EDUC 516. **Three hours per week.**

**560. COLLEGE TEACHING 3 hours credit**

Research-based investigation of theories and practices involved in teaching in institutions of higher education. Intended for graduate students aspiring to college teaching or academic leadership positions. Examines the roles and responsibilities of college instructors with emphasis on practical applications in college and university settings. **Three hours per week.**

**561. SEMINAR: ISSUES AND TRENDS  
IN POSTSECONDARY EDUCATION 3 hours credit**

Opportunities for research-based examination of selected current issues in postsecondary education and for students to share the efforts of their investigations on topics of interests. **Three hours per week.**

**565. INTERNSHIP IN POSTSECONDARY  
EDUCATION 3 hours credit**

Supervised, on-site field experiences and a series of seminars with other interns. Experimental learning enhanced by guided readings, interaction with professional practitioners, participation in activities of the host agency, completion of a major project and seminar discussions. **Prerequisite:** Consent of M.Ed. coordinator.

**570. SEMINAR: CURRENT ISSUES IN  
EDUCATIONAL TECHNOLOGY 3 hours credit**

Opportunities for students to pursue and share research-based examinations of selected current issues in educational technology. Examines the use of educational technology as a tool in the classroom rather than how to teach students about technology. Focuses primarily on interactive and information sharing technologies. **Prerequisite:** EDUC 471 or permission of instructor.

**571. TELECOMMUNICATIONS IN  
EDUCATION 3 hours credit**

Examines the role of telecommunications in education in general and the Internet in particular. Provides a broad introduction to the role of telecommunications in the teaching and learning process as well as how the Internet is transforming the organization of schools. Examines the history of telecommunications and the Internet, the applications of telecommunications in contemporary learning environments and possible future directions. **Prerequisite:** EDUC 471 or permission of instructor.

**572. PROCESSES AND ACQUISITION  
OF READING 3 hours credit**

Examines the physiological, cognitive, social and instructional influences on the development of language. Explores the instructional implications for balanced literacy instruction in sensory-rich environments to promote literate growth. Intended for in-service elementary teachers. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**573. ASSESSMENT FOR READING  
INSTRUCTION 3 hours credit**

Examines assessment instruments and processes employed at classroom, district, state and national levels. Promotes teacher decision-making by exploring the relationship between assessment and instruction. Develops ability to communicate assessment results to students, parents and school personnel. Intended for in-service elementary teachers. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**574. MATERIALS FOR TEACHING  
READING 3 hours credit**

Exposes participants to a variety of texts that can be used in classrooms. Examines strategies for motivating students to read widely, for selecting and evaluating materials, and for organizing classroom instruction with text. Intended for in-service elementary teachers. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**575. INSTRUCTION OF READING 3 hours credit**

Focuses on developing elementary environments fostering appropriate literacy skills and knowledge. Shows teachers how to use a balanced program of graphophonics, semantics and syntactics in teaching reading, appropriate early identification strategies to assist students with special literacy needs or low achievement. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**576. LITERATURE FOR CHILDREN AND  
ADOLESCENTS 3 hours credit**

Studies the works of important authors and illustrators in literature written specifically for children and adolescents with emphasis on selecting and using the literature in a balanced instructional program. **Three hours per week.**

**577. ORAL AND WRITTEN LANGUAGE 3 hours credit**  
 Current theories of language and literacy development as related to instructional practices, grades K-12. Emphasizes the development of compositional and technical elements of writing as it relates to total language and literacy development. **Three hours per week.**

**578. SEMINAR IN TEACHING SECONDARY ENGLISH 3 hours credit**  
 Engages students in in-depth examination of current issues in literacy instruction for secondary students. General nature of issues remains constant but particular focus varies semester to semester, to reflect current thought. **Three hours per week.**

**579. TRENDS IN ELEMENTARY LITERACY EDUCATION 3 hours credit**  
 Grounds methods of teaching language and literacy in current knowledge and theory of language and literacy acquisition. Students take an active role in building personal theory to guide their practice in elementary literacy instruction. **Three hours per week.**

**580. TRENDS IN MATHEMATICS AND SCIENCE EDUCATION IN THE ELEMENTARY SCHOOL 3 hours credit**  
 Critical review and analysis of current issues, research and practices in the teaching and learning of science and mathematics in the elementary school. Emphasis on exploring the expanding knowledge base in each discipline. **Three hours per week.**

**581. TRENDS IN SOCIAL STUDIES EDUCATION IN THE ELEMENTARY SCHOOL 3 hours credit**  
 Examines the current perspectives, trends, issues and controversies in the field of social studies education, both in relation to content and pedagogy. Considers social studies in terms of its relationship to the social science disciplines. **Three hours per week.**

**582. TEACHING READING IN THE CONTENT AREAS: PART I 3 hours credit**  
 Provides knowledge of the reading process, instructional strategies and materials used, drawn from research-based recommendations for using text in secondary content areas. Intended for M.Ed. candidates and other in-service teachers. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**583. TEACHING READING IN THE CONTENT AREAS: PART II 3 hours credit**  
 Provides in-depth study of literacy needs of diverse populations. Includes instructional and assessment methods in reading and writing. Intended for all secondary and K-12 teachers. **Prerequisite:** Admission to graduate study. **Three hours per week.**

**584. GROUP DYNAMICS IN CLASSROOM SETTINGS 3 hours credit**  
 Aids educators in working effectively with groups in school settings. Laboratory method used to provide experience-based learning about group processes. Recent research on group dynamics and its application in school settings considered. Emphasis on the acquisition of skills and strategies in developing effective classroom groups. These skills are particularly helpful in situations where students are being mainstreamed. **Three hours per week.**

**586. CONFLICT RESOLUTION AND PEER MEDIATION 3 hours credit**  
 Prepares educators to resolve conflicts with students, faculty and administration. Participants learn how to teach conflict resolution skills to students and how to institute peer mediation programs at the classroom and school levels. **Three hours per week.**

**587. COOPERATIVE LEARNING 3 hours credit**  
 Provides students with skills to effectively utilize cooperative learning in the classroom. Class and team building, teaching of social skills and the use of appropriate cooperative learning structures emphasized. **Three hours per week.**

**588. SEMINAR: EDUCATING INDIVIDUALS WITH DISABILITIES 3 hours credit**  
 Special education services and issues from the perspective of elementary and secondary teachers. Focus on the inclusion model for various categories of disability. **Prerequisite:** EDUC 502.

**590. SEMINAR IN EDUCATION 3 hours credit**  
 Topics vary semester to semester. May be taken twice under different course subtitles. **Prerequisite:** Consent of instructor.

**591. DIRECTED INDEPENDENT STUDY 1-3 hours credit**  
 Permits self-study of problems not considered in other courses. May be taken twice under different course subtitles. **Prerequisites:** Approval of course instructor and M.Ed. coordinator.

**595. RESEARCH SEMINAR 3 hours credit**  
 Capstone experience for students in the M.Ed. program. Students utilize research skills in completing a project based on a topic related to their concentration. Project must be presented to a professional audience. Students also reflect on how the M.Ed. program has made a difference in their professional lives. **Prerequisite:** EDUC 502, 24 hours of M.Ed. graduate credit.

## Education (EMAT)

**500. RESEARCH AND TECHNOLOGY I 3 hours credit**  
 Introduces students to the three basic forms of research: historical, descriptive and experimental, with an emphasis on incorporating them into classroom teaching. ERIC and other databases used in library research. Provides a technological base for the development of videotapes, portfolios and a research methodology for subsequent courses. Qualitative and quantitative data treatments developed within the context of individual student projects and the evaluation of the research literature. **Prerequisite:** Admission to M.A.T. program or consent of department chair. **Three hours per week.**

**501. DEVELOPMENT AND LEARNING APPLIED TO TEACHING 3 hours credit**  
 Examines theory and research in human development and learning psychology with application to teaching in contemporary middle and secondary schools. Emphasis on translating theory into practice by integrating field experiences, class work, student projects, assignments and exams. **Prerequisite:** Admission to M.A.T. program or consent of department chair. **Three hours per week.**

**502. SOCIAL AND PHILOSOPHICAL FOUNDATIONS OF CONTEMPORARY EDUCATION 3 hours credit**  
 Analysis of social and philosophical tenets of education, with an emphasis on implications for contemporary middle and secondary schools. Examines current trends, issues, research and practice. Field experiences involving community, educational and social service agencies required. **Prerequisite:** Admission to M.A.T. program. **Three hours per week.**

**503. PRINCIPLES OF CURRICULUM CONSTRUCTION 3 hours credit**  
 Historical and current influences on curriculum developments and classroom applications; examines underlying principles, philosophical and social influences on strategic planning processes and school improvements. Emphasis on technological impacts on curriculum and instruction. Curriculum

strands, research studies and products reviewed and assessed. **Prerequisite:** Admission to M.A.T. program or consent of department chair. **Three hours per week.**

**504. TEACHING READING IN THE CONTENT AREAS I 3 hours credit**

Knowledge of the reading process, instructional strategies and materials use, drawn from research-based recommendations for using text in secondary content areas. **Prerequisite:** Admission to M.A.T. program. Intended for all M.A.T. candidates. **Three hours per week.**

**505. METHODS OF TEACHING AND ASSESSMENT 3 hours credit**

Effective instructional methods and educational assessment procedures. Examines general principles related to planning and delivering instruction. Emphasizes connection between assessment and instruction. Presents informal and formal assessment procedures. Field experience required. **Prerequisite:** Admission to M.A.T. program or consent of department chair. **Three hours per week.**

**506. INCLUSIVE TEACHING FOR DIVERSE POPULATIONS 3 hours credit**

Survey of special education and multicultural education. Instructional implications of diversity in the classroom. Current trends and instructional strategies for inclusion will be discussed and research opportunities provided. Field experiences. **Prerequisite:** Admission to M.A.T. program or consent of department chair. **Three hours per week.**

**507, 509. M.A.T. INTERNSHIP I & II 3 hours credit each**

Two full-time, seven-week clinical experiences providing opportunities to actualize the latest educational research and theory into practice, including but not exclusive to observation, mini-teaching, macro-teaching, whole group lessons and action research. Conducted under the direct supervision of a clinical supervisor (experienced public school teacher) with guidance and support from the university supervisor. **Prerequisites:** Completion of all coursework in M.A.T. sequence; passing score on the PRAXIS and passing grade on the M.A.T. joint comprehensive examination. **Corequisite:** EMAT 511. **Three hours per week each.**

**508. TEACHING READING IN THE CONTENT AREAS II 3 hours credit**

In-depth study of literacy needs of diverse populations. Includes instructional and assessment methods in reading and writing. **Prerequisites:** Admission to the M.A.T. program, EMAT 504. Intended for all M.A.T. candidates. **Three hours per week.**

**510. APPLIED RESEARCH AND TECHNOLOGY II 3 hours credit**

Complete and present portfolios, action research projects and seminar papers. Integrates educational technology, especially as it applies to teaching in the schools. **Prerequisite:** Successful completion of internship and seminar courses. **Three hours per week.**

**511. M.A.T. INTERNSHIP SEMINAR 3 hours credit**

Forum for discussing problems encountered during the internship. Colloquium for developing strategies to resolve these problems. **Prerequisites:** Completion of all coursework in M.A.T. sequence prior to the internship; passing score on the PRAXIS and passing grade on the M.A.T. joint comprehensive examination. **Corequisites:** EMAT 507 and 509. **Three hours per week.**

**521. TEACHING ENGLISH IN THE SECONDARY SCHOOL 3 hours credit**

Prepares prospective teachers to teach English in middle and high schools. Students integrate their content knowledge with the basic teaching methodologies of preparing objectives, effective questioning, curriculum and resource evaluations,

teacher presentations, cooperative learning, demonstrations and experiments, student projects, classroom management, lesson and unit planning. Students placed with a high school or middle school English teacher for observations and bit teaching experiences. **Prerequisites:** Admission to M.A.T. program and successful completion of Research I, Curriculum, Social Foundations, and Development and Learning courses. **Three hours per week.**

**522. SECONDARY SCHOOL SCIENCE METHODS 3 hours credit**

Prepares prospective teachers to teach science in middle and high schools. Students integrate their content knowledge with the basic teaching methodologies of preparing objectives, effective questioning, curriculum and resource evaluations, teacher presentations, cooperative learning, demonstrations and experiments, student projects, classroom management, lesson and unit planning. Students placed with a high school or middle school science teacher for observations and bit teaching experiences. **Prerequisites:** Admission to M.A.T. program and successful completion of Research I, Curriculum, Social Foundations, and Development and Learning courses. **Three hours per week.**

**523. SECONDARY SCHOOL SOCIAL STUDIES METHODS 3 hours credit**

Prepares prospective teachers to teach social studies in middle and high schools. Students integrate their content knowledge with the basic teaching methodologies of preparing objectives, effective questioning, curriculum and resource evaluations, teacher presentations, cooperative learning, demonstrations and experiments, student projects, classroom management, lesson and unit planning. Students placed with a high school or middle school social studies teacher for observations and bit teaching experiences. **Prerequisites:** Admission to M.A.T. program and successful completion of Research I, Curriculum, Social Foundations, and Development and Learning courses. **Three hours per week.**

**524. SECONDARY SCHOOL FOREIGN LANGUAGE METHODS 3 hours credit**

Prepares prospective teachers to teach foreign language in middle and high schools. Students integrate their content knowledge with the basic teaching methodologies of preparing objectives, effective questioning, curriculum and resource evaluations, teacher presentations, cooperative learning, demonstrations and experiments, student projects, classroom management, lesson and unit planning. Students placed with a high school or middle school foreign language teacher for observations and bit teaching experiences. **Prerequisites:** Admission to M.A.T. program and successful completion of Research I, Curriculum, Social Foundations, and Development and Learning courses. **Three hours per week.**

**525. SECONDARY SCHOOL MATHEMATICS METHODS 3 hours credit**

Prepares prospective teachers to teach mathematics in middle and high schools. Students integrate their content knowledge with the basic teaching methodologies of preparing objectives, effective questioning, curriculum and resource evaluations, teacher presentations, cooperative learning, demonstrations and experiments, student projects, classroom management, lesson and unit planning. Students placed with a high school or middle school mathematics teacher for observations and bit teaching experiences. **Prerequisites:** Admission to M.A.T. program and successful completion of Research I, Curriculum, Social Foundations, and Development and Learning courses. **Three hours per week.**

## English (ENGL)

**401. STUDIES IN FILM 3 hours credit**

Study of a director, period, genre, movement or theme in the area of film. May be repeated twice under different subtitles.

Cannot receive credit for both ENGL 325 and ENGL 401.

**Prerequisite:** ENGL 102. **Three hours per week.**

**402. FILM HISTORY 3 hours credit**

The history of motion pictures with a focus on technical and artistic trends and the work of important artists and directors. Cannot receive credit for both ENGL 321 and ENGL 402. **Prerequisite:** ENGL 102. **Three hours per week.**

**403. FILM GENRE 3 hours credit**

An introduction to the concept of film genre and to the study of specific film genres including comedies, musicals, westerns, gangster films, horror films and science fiction films. Cannot receive credit for both ENGL 324 and ENGL 403. **Prerequisite:** ENGL 102. **Three hours per week.**

**405. MAJOR FILM DIRECTORS 3 hours credit**

Intensive study of individual American and foreign *auteur* directors, singly or in groups. Focus on those artists who write their own screenplays and direct their own films. May be repeated twice if different directors are studied. **Prerequisite:** ENGL 102. **Three hours per week.**

**410. INDIVIDUAL AUTHORS 3 hours credit**

An intensive study of one to three writers of major stature (choice to be made by the instructor). Cannot receive credit for both ENGL 343 and ENGL 410. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**411. CHAUCER (Author)**

Chaucer's major works with emphasis on *The Canterbury Tales*. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**412. MILTON (Author) 3 hours credit**

The sonnets, companion poems, essays and drama. Emphasis on *Paradise Lost*. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**413. SHAKESPEARE 3 hours credit**

A study of the major comedies and histories with an emphasis on the tragedies. Cannot receive credit for both ENGL 419 and ENGL 413. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**430. PRINCIPLES OF LINGUISTICS 3 hours credit**

Detailed study of the primary linguistic systems, including phonology, morphology, semantics, syntax and pragmatics. Introduces important sociolinguistic research concerns. As the course is designed for teachers in training, students apply those linguistic concepts to practical language learning problems. **Prerequisite:** ENGL 102. **Three hours per week.**

**431. SURVEY OF MODERN ENGLISH GRAMMAR 3 hours credit**

Study of modern English grammar accomplished through a variety of language analysis approaches, including traditional, structural and transformational. **Prerequisite:** ENGL 110, 430 or permission of instructor. **Three hours per week.**

**432. LITERACY AND ESOL READING 3 hours credit**

Introduces students interested in questions of language acquisition to the theories and practices relating to learning to read in a second language or second dialect. Topics included are models for acquiring foreign language reading skills, teaching strategies for second language/dialect literacy, evaluating literacy skills, current research about acquisition of literacy skills, and political and social implications of second language/dialect literacy. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**433. LANGUAGE AND CULTURE 3 hours credit**

Linguistics approach to the peculiar relationship between a language and the cultural total of which the language is a part.

Examines language variations within a community according to gender, age, geography, ethnicity, socioeconomic class and level of education. Considers the educational, political and economic implications. **Prerequisite:** ENGL 102. **Three hours per week.**

**434. LITERACY AND ESOL WRITING 3 hours credit**

Introduces students interested in questions of language acquisition to the theories and practices of learning to write in a second language or second dialect. Topics include writing theory, writing strategies, evaluating writing, and writers and rhetorical concerns. Students develop a literacy project, writing materials for specific ESOL students. Cannot receive credit for both ENGL 443 and ENGL 434. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**438. BILINGUALISM 3 hours credit**

Study of what it means to be a bilingual child or adult. Explores the mind's role in bilingualism and in language acquisition. Surveys educational systems' response to language variance among students and explores the social, academic and language learning consequences of growing up bilingual in the U.S.A. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**439. SECOND LANGUAGE ACQUISITION 3 hours credit**

Introduction to second language acquisition (SLA) theory and the application of SLA theory to second/foreign language teaching practices. Explores what it means to know a language and, hence, how one learns a second language. **Prerequisite:** ENGL 110, 430 or permission of instructor. **Three hours per week.**

**453. MODERN POETRY (Genre) 3 hours credit**

A study of British and American poetry from Yeats through World War II. Poets include Hopkins, Yeats, Eliot, Pound, Frost, Williams, Robinson, Crane, Stevens, Auden and Dylan Thomas. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**461. FEMINIST LITERATURE AND THEORY 3 hours credit**

A survey of the growth and transformation of feminist literature and theory from the birth of the woman's movement in the nineteenth century to contemporary cultural feminist writings. We will also investigate modern and contemporary images and representations of women in literature, film and popular culture from a critical perspective that celebrates cultural diversity and alternative viewpoints. **Prerequisites:** ENGL 102. **Three hours per week. Meets General Education IA.**

**463. LITERARY ANALYSIS 3 hours credit**

Analytical approaches to literature designed to teach teachers and prospective teachers traditional, formal, psychological, mythological and exponential analyses of narrative fiction, drama and poetry applied to the various genres. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**465. RESEARCH IN COMPOSITION 3 hours credit**

Explores current theories and research on writing process and product. Topics include: definitions of writing; rhetorical contexts; heuristics for prewriting, writing and rewriting; questions of arrangement, style, grammar, mechanics and assessment. **Prerequisite:** C or better in ENGL 102. **Three hours per week.**

**466. CURRENT PROBLEMS IN COMPOSITION RESEARCH 3 hours credit**

Applies theoretical concepts from ENGL 465 to current issues in composition and rhetoric research (such as basic writing, methods of responding to student writing and audience adaptation). Emphasizes modes of research for continuing investigation of these issues. **Prerequisite:** ENGL 465 or approval of the professor. **Three hours per week.**

**467. HISTORY AND THEORY OF RHETORIC****3 hours credit**

Study of how changing views of rhetoric affect public attitudes toward writing and influence writing instruction in schools and universities. Emphasizes shifting views toward style, argument and the relationship between persuasion and knowledge. Cannot receive credit for both ENGL 470 and ENGL 467. **Prerequisite:** ENGL 102. **Three hours per week.**

**471. MEDIEVAL LITERATURE****3 hours credit**

A survey of literature produced in the European and Mediterranean worlds between the seventh and the 15th centuries of the Common Era. Readings include excerpts and whole works. All texts presented in modern English. Primary texts historicized and contextualized through secondary readings in history, ethnography, the arts, criticism. **Prerequisites:** ENGL 102. **Three hours per week. Meets General Education IA.**

**472. ELIZABETHAN AND****JACOBEAN LITERATURE (Period)****3 hours credit**

A study of major British literature, exclusive of Shakespeare, from 1500-1660. Authors include Sidney, Spenser, Donne and Milton. Cannot receive credit for both ENGL 414 and ENGL 472. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**473. RESTORATION AND 18TH CENTURY****LITERATURE (Period)****3 hours credit**

A study of British literature from 1660 through the 18th century. Writers studied include Behn, Rochester, Dryden, Defoe, Swift, Pope, Johnson, Boswell, Goldsmith, Burns and Blake. Cannot receive credit for both ENGL 420 and ENGL 473. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**474. ROMANTIC LITERATURE****(Period)****3 hours credit**

Study of British poetry and aesthetics from the French Revolution through the first third of the 19th century. Primary readings from Blake, Wordsworth, Coleridge, Byron, Shelley, Keats. Cannot receive credits for both ENGL 421 and ENGL 474. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**475. VICTORIAN LITERATURE (Period)****3 hours credit**

A study of major British literature during the reign of Queen Victoria. Writers studied may include Tennyson, Browning, Arnold, Carlyle, Newman and Ruskin. Cannot receive credit for both ENGL 425 and ENGL 475. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**476. BRITISH NOVEL I:****BEGINNINGS TO 1800****3 hours credit**

A study of the British novel through the 18th century. Novelists studied include Defoe, Richardson, Fielding, Sterne, Smollett and Austen. Cannot receive credit for both ENGL 460 and ENGL 476. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**477. BRITISH NOVEL II: 1800-1945****3 hours credit**

A study of the British novel of the 19th and 20th centuries, with works chosen from the writings of Austen, Dickens, Thackeray, Trollope, Hardy, Conrad, D.H. Lawrence and Virginia Woolf. Cannot receive credit for both ENGL 462 and ENGL 477. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**479. CONTEMPORARY TRENDS IN****BRITISH LITERATURE****3 hours credit**

Contemporary trends in British literature from 1970 to the present. Writers may include Penelope Fitzgerald, Anita Brookner, A. S. Byatt, Seamus Heaney, Geoffrey Hill, Tom

Stoppard, William Trevor, Martin Amis, Graham Swift, Ian McEwan and Brian Friel. **Prerequisites:** ENGL 102. **Three hours per week. Meets General Education IA.**

**480. COLONIAL AMERICAN LITERATURE****(Period)****3 hours credit**

A study of American literature prior to 1820. Writers studied may include Bradford, Bradstreet, Taylor, Edwards, Franklin, Irving and Cooper. Cannot receive credit for both ENGL 426 and ENGL 480. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**481. THE AMERICAN RENAISSANCE****(Period)****3 hours credit**

A study of the Transcendental Movement and literature between 1830 and 1870. Emphasis on the works of Emerson, Thoreau, Hawthorne, Melville, Whitman and Dickinson. Cannot receive credit for both ENGL 427 and ENGL 481. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**483. AMERICAN SOUTHERN RENAISSANCE****1930-1970 (Period)****3 hours credit**

A study of fiction produced in the South between 1930 and 1970. Writers may include Glasgow, Faulkner, O'Connor, Welty, Porter, Warren, Percy, Capote, Taylor, Grau, Styron and Young. Cannot receive credit for both ENGL 428 and ENGL 483. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**484. AMERICAN NOVEL I:****BEGINNINGS TO 1900****3 hours credit**

A study of major American novels through 1900. Writers studied may include Crane, Hawthorne, Melville and Twain. Cannot receive credit for both ENGL 457 and ENGL 484. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**485. AMERICAN NOVEL II: 1900-1945****3 hours credit**

A study of major American novels between 1900 and World War II. Writers studied may include Cather, Faulkner, Fitzgerald, Hemingway, Hurston, James, Lewis and Wharton. Cannot receive credit for both ENGL 458 and ENGL 485. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**486. AMERICAN NOVEL III:****1945 TO PRESENT****3 hours credit**

A study of major American novels since World War II. Writers may include Pynchon, Roth, Morrison, McCarthy, Mukherjee, DeLillo, Kerouac, Nabokov. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**488. CONTEMPORARY TRENDS IN****AMERICAN LITERATURE****3 hours credit**

Contemporary trends in U.S. literature from 1970 to the present. Writers may include McCarthy, DeLillo, Shepard, Tyler, Vonnegut, C. Johnson, Albee, Kincaid, Morrison, Walker, Silko. **Prerequisite:** ENGL 102. **Three hours per week. Meets General Education IA.**

**490. TOPICS IN ENGLISH****1-3 hours credit**

Intensive study of a literary genre, figure or period; or intensive study in language, writing or film. May be repeated for credit in different areas of study. **Prerequisite:** ENGL 102 or consent of instructor. **Meets General Education IA.**

**491. TOPICS IN LINGUISTICS****AND LANGUAGE LEARNING****3 hours credit**

An examination of selected topics of linguistics as they relate directly to first and second language learning. The course may focus in different semesters on such topics as phonology and language learning, syntactic theory and language learning, or

discourse and language learning. This course may be repeated once under different course subtitles recorded with the registrar. **Prerequisite:** ENGL 430. **Three hours lecture per week.**

**492. PRACTICUM IN ENGLISH 1-3 hours credit**  
Under the close supervision of a master teacher, an advanced student in an English option interns as a teaching assistant in a lower-division course in that option. Cannot receive credit for both ENGL 442 and ENGL 492. **Prerequisites:** Nine hours of coursework in that option and approval of department chair. **Variable hours per week.**

**500. SEMINAR IN AMERICAN LITERATURE THROUGH THE 19TH CENTURY 3 hours credit**  
A study of selected topics in American literature through the 19th century. Emphasizes one or more authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**501. SEMINAR IN AMERICAN LITERATURE OF THE 20TH CENTURY 3 hours credit**  
A study of selected topics in American literature of the 20th century (up to 1945). Emphasizes one or more authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**502. SEMINAR IN ENGLISH LITERATURE I 3 hours credit**  
A study of selected topics in English literature from the beginnings to 1660. Emphasizes one or more authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**503. SEMINAR IN ENGLISH LITERATURE II 3 hours credit**  
A study of selected topics in English literature of the Restoration and 18th century. Emphasizes one or more major authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**504. SEMINAR IN ENGLISH LITERATURE III 3 hours credit**  
A study in selected topics of English literature of the 19th century. Emphasizes one or more major authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**505. SEMINAR IN ENGLISH LITERATURE IV 3 hours credit**  
A study of selected topics in English literature of the 20th century. Emphasizes one or more major authors, genres or literary themes. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**509. SEMINAR IN LANGUAGE STUDY 3 hours credit**  
A study in selected topics in language and linguistics. The course focuses in different semesters on such topics as the new English, descriptive or historical linguistics, morphology-syntax, or phonetics and phonemics, teaching standard English to speakers of other languages or to speakers of other dialects. May be repeated under different course subtitles recorded with the registrar. **Prerequisite:** ENGL 110 or 431 or consent of instructor. **Three hours per week.**

**510. SEMINAR IN LITERATURE: SPECIAL TOPICS 3 hours credit**  
Examines topics in English and American literature which cross traditional, chronological, national or ontological boundaries. May be repeated under different course subtitles recorded with the registrar. **Three hours per week.**

**514. WRITING PROGRAM ISSUES 3 hours credit**  
Explores successful writing programs, particularly at the college level, and their connections to research/theory in composition.

Requires students to evaluate and propose guidelines for composition study and instruction. **Three hours per week.**

**515. EASTERN SHORE WRITING PROJECT SUMMER INSTITUTE 6 hours credit**  
Explores current theories about the composing process and their implications for teaching writing and using writing to teach other content areas. Focuses on adapting and evaluating classroom activities for different grade levels and educational settings. Cross-listed with EDUC 515. **Prerequisite:** Consent of the instructor.

**528. ESOL TESTS AND MEASUREMENTS 3 hours credit**  
Introduces students to present-day language theory and practice. Objectives are not only to increase students' skills in writing classroom language tests and assessing standardized instruments, but also to improve their ability to evaluate language research in which testing plays a part. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

**530. DIRECTED RESEARCH 3 hours credit**  
Preparation of optional research project in master's degree program under department supervision.

**531. THESIS 3 hours credit**

**533. ESOL PROGRAM DEVELOPMENT 3 hours credit**  
Introduces students to the theory, practice and special needs in developing and implementing an ESOL curriculum in a public, private or business enterprise for language learners K-adult. Allows students to explore the complexities involved in planning and developing a language curriculum; sensitize themselves to the cultural conflicts and biases, both socio-linguistic and linguistic, which are faced by limited English-proficient students; and to prepare for the actual writing and implementing of an ESOL curriculum where needed. **Prerequisite:** ENGL 430 or permission of instructor. **Three hours per week.**

## French (FREN)

**401. ADVANCED COMPOSITION AND MORPHOLOGY 3 hours credit**  
Synthesis on an intense, advanced level of all of the principles of morphology, syntax, sentence development and sentence structure through translation and detailed composition. **Prerequisite:** FREN 310 or consent of department chair. **Three hours per week.**

**402. ADVANCED CONVERSATION 3 hours credit**  
Provides greater flexibility in the spoken language by intense oral practice to correct the defects of pronunciation and diction through phonetics. **Prerequisite:** FREN 312 or consent of department chair. **Three hours per week.**

**405. SPECIAL PROBLEMS IN FRENCH 1-6 hours credit**  
Individual study of special areas in French linguistics or in French literature with the advice and direction from a member of the department. May be repeated with new content. **Prerequisite:** Consent of department chair.

**480. SENIOR SEMINAR 1-3 hours credit**  
For senior French majors. Research encompassing several areas of French life and culture, language and literature is brought to bear upon a single theme or issue. **Prerequisite:** Senior standing.

## Geography and Geosciences (GEOG)

**401. SOIL, WATER AND ENVIRONMENT 3 hours credit**  
Study of the role of soil and water in the physical environment and practices used in analyzing and managing these resources.

**Prerequisite:** GEOL 103 or 105 or consent of instructor. **Two one-hour lectures; one two-hour laboratory or one field trip per week.**

**404. RURAL SETTLEMENT AND LAND USE 3 hours credit**

Analysis of the economic, demographic and spatial patterns of the rural United States. Special attention given to the problems and potentialities of non-metropolitan areas and to land use planning. **Prerequisite:** GEOG 203 or consent of instructor. **Three hours per week.**

**406. REGIONAL PLANNING 3 hours credit**

Analysis of the spatial incidence of economic growth. Emphasis on the spatial dimension as an important consideration in the theory and practice of economic development planning. **Prerequisite:** GEOG 203 or consent of instructor. **Three hours per week.**

**408. URBAN PLANNING 3 hours credit**

Examination of theories and policies related to urban development and land use planning, along with techniques for evaluation. Assessment of the urban planning process with case studies. **Prerequisite:** GEOG 308 or consent of instructor. **Three hours per week.**

**410. METEOROLOGY 3 hours credit**

Analysis of physical processes and dynamics of the atmosphere. Topics include upper atmospheric flow, forecasting and severe weather. **Prerequisite:** GEOG 201 or consent of instructor. **Three hours per week.**

**411. GEOMORPHOLOGY 3 hours credit**

The scientific study of landscapes and the forces that shape them. **Prerequisite:** GEOL 103 or consent of instructor. **Four hours per week; three one-day, one three-day field trips.**

**413. APPLIED CLIMATOLOGY 3 hours credit**

Analysis of the impact of climate on the physical environment and human behavior. Topics include climatic change, contemporary climatic problems and the influence of climate on agriculture, and energy use. **Prerequisite:** GEOG 201 or consent of instructor. **Three hours per week.**

**415. SELECTED PROBLEMS 3 hours credit**

Independent study permitting research or in-depth work on a selected topic to be indicated on student's transcript. May be taken twice for credit under different subtitles. Intended for senior with 18 or more hours in geography. **Prerequisite:** Consent of department review committee.

**422. READINGS IN GEOGRAPHY 3 hours credit**

Permits in-depth study of a selected topic to be indicated on student's transcript. **Prerequisite:** Consent of department review committee.

**450. TOPICS IN GEOGRAPHY 3 hours credit**

Analysis of a selected systematic/regional topic to be entered on the student's transcript. May be taken three times for credit under different subtitles. **Prerequisite:** Consent of instructor. **Three hours per week.**

**460. INTERNSHIP 1-3 hours credit**

Provides students with opportunities to apply geographic/planning theory, techniques and knowledge as practicing professionals. Intended for seniors with 18 or more hours in geography. **Prerequisite:** Approval of the department. **Three hours per week for each credit hour.**

**475. FIELD PROBLEMS IN GEOGRAPHY 3-6 hours credit**

Geographic research field experience. Development of a research proposal, collection and analysis of data, and the

integration of such in a formal research paper. **Prerequisite:** Consent of instructor.

**504. SEMINAR: PHYSICAL GEOGRAPHY 3 hours credit**

Seminar deals with current problems in the areas of meteorology, climatology, soils, geomorphology and vegetation. Topics selected with consent of instructor. May be taken twice for credit under different subtitles. **Prerequisite:** 400-level physical geography course or consent of instructor. **Three hours per week.**

**506. SEMINAR IN REGIONAL GEOGRAPHY 3 hours credit**

Analysis of selected topics on the physical and/or human geography of specified geographic regions. The region under consideration varies from semester to semester. Topics chosen with consent of instructor. May be taken twice for credit under different subtitles. **Prerequisite:** 400-level physical geography course or consent of instructor. **Three hours per week.**

**530. DIRECTED RESEARCH 3 hours credit**

Preparation of optional research project in master's degree program under departmental direction.

## Health (HLTH)

**401. COMMUNITY HEALTH 3 hours credit**

Study of the factors involved in improving public health, including a survey of community health problems and resources and the role of the teacher in community health. **Three hours per week.**

**410. STRESS AND STRESS MANAGEMENT 3 hours credit**

Provides an understanding of the nature of the stress response and the practical application of stress management techniques. Major topics include the psychophysiology of stress, the role of stress in disease, social engineering, cognitive reappraisal and relaxation training. Useful for personal growth and professional application. **Prerequisites:** BIOL 215, 216. **Three hours per week.** (fall semester only)

## History (HIST)

**400. HISTORY OF MARYLAND 3 hours credit**

Study of Maryland history and government from the Colonial period to present. Places special stress on the leaders, institutions and contributions made in Maryland and by Maryland to the nation. **Three hours per week.**

**401. HISTORY OF U.S. FOREIGN RELATIONS 3 hours credit**

Historical study of U.S. foreign relations from independence to the present, focusing on the global impact of the nation as an economic, cultural, political and military **superpower**. **Prerequisites:** HIST 201, 202. **Three hours per week.**

**405. THE UNITED STATES IN THE 20TH CENTURY I 3 hours credit**

Populism to 1932. Study of the political, economic, intellectual and social problems attending America's rise to world power late in the 19th century, involvement in World War I, the changes attending that conflict and the problems of the 1920s. **Prerequisites:** HIST 201, 202. **Three hours per week.**

**406. THE UNITED STATES IN THE 20TH CENTURY II 3 hours credit**

F.D. Roosevelt to the present. Study of the efforts of the United States to resolve the complex problems of the 1930s intensified by the Great Depression, its involvement in World War II and struggles to maintain peace in the post-war world. **Prerequisites:** HIST 201, 202. **Three hours per week.**

**407. THE WESTWARD MOVEMENT 3 hours credit**

Study of the westward movement from the Atlantic to the Trans-Allegheny and Trans-Mississippi West, with emphasis upon the influence of the frontiers in shaping American civilization. **Three hours per week.**

**408. HISTORY OF THE SOUTH 3 hours credit**

History of the South from the Colonial period to the present, covering developments in politics, economics, culture and society. **Three hours per week.**

**412, 413. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES I and II 3 hours credit each**

Studies of American thought as reflected by the people and leaders. Development of American heritage from the Colonial period to the present, emphasizing the intellectual, social, religious and economic movements. The first course covers from the Colonial period to Reconstruction and the second course from about 1876 to present. **Three hours per week.**

**415. HISTORY AND FILM 3 hours credit**

Examines the impact of film on the study and understanding of history. Includes a study of how film has been used to portray 20th century events, how it has captured major events on film and how its power can be used to manipulate public opinion. Documentaries, narrative films and scholarly works will be used as resources. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**417. HISTORY OF SCIENCE AND TECHNOLOGY 3 hours credit**

Survey of evolution of scientific achievements and technology in the Western world, with particular emphasis on the cultural, economic and social implications of these developments. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**421. EUROPE IN THE 20TH CENTURY WORLD 3 hours credit**

Study of the economic, social, intellectual and political development of Europe, viewed in the context of world wars, depression and conflicting political ideologies, showing the decline of European dominance and the rise of America and Asia. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**423. IMPERIAL RUSSIA 3 hours credit**

Study of the Russia empire from Peter the Great to the 1917 revolution focusing on the political, economic and social developments, Russia's expansion and the conditions that led to revolution. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**424. MODERN RUSSIA 3 hours credit**

Survey of 20th-century Russia and the Soviet Union, emphasizing the growth to global power, continuity and change, and the inherent problems that led to Soviet collapse and the rise of a new Russia. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**430. READINGS IN HISTORY 3 hours credit**

Readings course for students who have achieved above average in at least 18 hours of history courses. May be taken twice under different course titles recorded with the registrar. **Prerequisite:** Permission of department chair. **Three hours per week.**

**440. MINORITY GROUPS IN UNITED STATES HISTORY 3 hours credit**

Attention to the role and contribution of minority groups in general, with special emphasis on some of the larger and older minority groups. **Three hours per week.**

**445. AFRICAN-AMERICAN HISTORY 3 hours credit**

Study of the life and role of the African-American from the Colonial period to the present. **Three hours per week.**

**451. WORLD WAR I 3 hours credit**

Study of the events that occurred during World War I, from the assassination of Franz Ferdinand at Sarajevo to the peace of 1919. Emphasis on political developments, social and intellectual implications of the war, and its significance in shaping the 20th century. **Prerequisite:** HIST 102. **Three hours per week.**

**452. THE SECOND WORLD WAR: A GLOBAL HISTORY 3 hours credit**

The Second World War has shaped the contemporary world as no other 20th century event has. Through discussion and study of texts and film, this course examines the global political, military and economic aspects of the conflict as well as its social and cultural impact. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**453. THE COLD WAR: A GLOBAL HISTORY 3 hours credit**

After 1945, the fiery rivalry between the U.S. and Soviet Union threatened the world with nuclear destruction and dominated global politics for almost 50 years. This course examines the political and cultural impact of the Cold War on the U.S., Europe and the developing world. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**460. HISTORY OF CHINA SINCE 1800 3 hours credit**

The revolutionary transformation of China from the 19th century to the present, with emphasis on the impact of imperialism, the profound effects of Western technology and foreign policy wrought by the history of its relations with the West. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**470. HISTORY OF THE EARLY ROMAN EMPIRE 3 hours credit**

Study of particular institutions and movements in Roman history. Emphasis on family history and social and religious trends during the early imperial period of Roman history. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**472. STUDIES IN CLASSICAL ARCHAEOLOGY 3 hours credit**

Assorted topics and archaeological sites of the ancient Mediterranean world (Crete, Greece and Italy). May be taken twice under different subtitles. **Prerequisites:** HIST 101, 102. **Three hours per week.**

**474. HISTORY OF ANCIENT EGYPT 3 hours credit**

Intensive study of three eras of Egyptian history: the Pyramid Age, the chaotic Middle Kingdom and New Kingdom Absolutism. Emphasis on cultural, religious and artistic contributions. **Prerequisite:** HIST 101. **Three hours per week.**

**478. ANCIENT MILITARY HISTORY 3 hours credit**

Explores the history of the great battles and campaigns of antiquity. Emphasis is placed on developments in strategy and tactics, the lives of the men in the ranks, the careers of leaders, and the decisive nature of these conflicts on the course of history. Special attention is given to the interaction between military realities and the functioning of society as a whole. **Prerequisite:** HIST 101. **Three hours per week.**

**480. MUSEUM STUDIES 3 hours credit**

Work experience course that invites students to learn techniques of museology. Students work in cooperation with various local or regional museums under the supervision and direction of a museum curator. May be taken twice with the consent of the instructor. **Prerequisite:** Written approval of department chair to register. **Three hours per week.**

**490. STUDIES IN HISTORY 3 hours credit**

Intensive historical study of particular periods and groups, economic, intellectual, cultural, social movements and/or institutions. May be taken twice under different course titles recorded with the registrar. **Prerequisite:** Consent of department chair. **Three hours per week.**

**501. METHODS OF HISTORICAL RESEARCH 3 hours credit**

This course aims to familiarize students with the vast original documentation relating to the lower Delmarva peninsula. Students will examine first hand each type of original record available at the Research Center to understand what sort of social, political, educational, economic, religious, or cultural material(s) might ordinarily be included in that record type. Students will also familiarize themselves with the 17th and 18th century language and handwriting, which is often like learning to read a foreign language because of the peculiarities of words and penmanship, but which is, at the same time, crucial to an understanding of the documents of those times. Finally, once students have mastered the mechanics of the original records, they will begin the process of research, leading to interpretation of the records. Research will be undertaken with the idea of creating a more complete picture of what life was like during the century after the initial settlement of the Lower Eastern Shore area. **Three hours per week.**

**502. SEMINAR: COLONIAL AND REVOLUTIONARY AMERICA 3 hours credit**

A study of Colonial institutions and the American Revolutionary movement. Emphasis is placed upon the study of specific topics through individual research projects. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**503. SEMINAR IN 19TH CENTURY AMERICA 3 hours credit**

An opportunity to explore in-depth 19th century American society, via themes selected by the instructor. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**504. SEMINAR IN EUROPEAN HISTORY 3 hours credit**

Designed to enable the student to explore, through intensive research, basic problems in European history. The period or topics to be studied will be selected by the instructor. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**505. SEMINAR: MARYLAND HISTORY 3 hours credit**

Designed to acquaint students, through readings and research, with some of the major problems and developments in the history of Maryland. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**506. SEMINAR IN 20TH CENTURY AMERICA 3 hours credit**

Enables intensive exploration of specific periods and/or problems in this century through individual research. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**507. SEMINAR IN CHESAPEAKE AND MIDDLE ATLANTIC HISTORY 3 hours credit**

Reading seminar offered as an integral part of a series of seminars relating a variety of facets of Chesapeake history. This seminar places the Delmarva area within the broader context of the Middle Atlantic community (i.e., the provinces of Maryland, Virginia, Delaware, New Jersey, Pennsylvania and New York). Comparative studies will demonstrate how the Chesapeake area developed in similar or contrasting ways to her sister areas in regard to economic, social, cultural, religious, and political institutions. The goal of the seminar is to obtain a clearer understanding of the Chesapeake area (and Delmarva). **Three hours per week.**

**508. SEMINAR IN AMERICAN DIPLOMACY 3 hours credit**

Permits investigation, through reading and research, of selected problems in the history of American diplomacy. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**509. STUDIES IN EARLY DELMARVA 3 hours credit**

This research seminar examines life in Delmarva during a specific period of time as a way of familiarizing students with a microcosm of early colonial history. Using primary records of the Lower Eastern Shore, students will undertake research to create a more complete picture of what life was like after the early settlement of Delmarva. Students will look at the settlers, the settlement patterns, and will attempt to ascertain the sorts of social and familial networking which emerged in this coastal environment. Through an in-depth analysis, students will reconstruct the social and economic world which existed in the 17th and early 18th centuries on the Eastern Shore. **Three hours per week.**

**510. SEMINAR IN LATIN AMERICAN HISTORY 3 hours credit**

An intensive study of major institutions and specific periods in Latin America through reading and research. May be taken twice under different course subtitles recorded with the registrar. **Three hours per week.**

**512. READING SEMINAR 3 hours credit**

An extensive-intensive directed readings course on a topic selected by the instructor. It is intended to be an in-depth survey of a specific topic, as well as preparation for the written and oral examinations for the M.A. **Three hours per week.**

**530. DIRECTED RESEARCH 3 hours credit**

Preparation of optional research project in master's degree program under departmental supervision. **Three hours per week.**

**531. THESIS 3 hours credit**

## Information Systems Management (ISMN)

**655. INFORMATION SYSTEMS FOR MANAGEMENT DECISIONS 3 hours credit**

Computerized management tools for decision-making are emphasized. Design and use of data processing systems, transaction processing systems and decision support systems discussed. Microcomputer applications include database management spreadsheets, statistical and word processing packages. **Prerequisite:** Admission to M.B.A. program. **Three hours per week.**

## Mathematics (MATH)

**402. THEORY OF NUMBERS 3 hours credit**

Basic concepts: integers, prime numbers, divisibility, congruences and residues. **Prerequisite:** MATH 201 and/or MATH 305 (both recommended). **Three hours per week.**

**406. GEOMETRIC STRUCTURES 3 hours credit**

Axiomatic development of incidence, ordered incidence, affine and absolute geometries; investigation of Euclidean and non-Euclidean geometries. **Prerequisite:** MATH 210. **Three hours per week.**

**413. MATHEMATICAL STATISTICS I 3 hours credit**

Axioms and algebra of probability, discrete and continuous random variables, multivariate distributions, limit theorems. **Prerequisite:** MATH 213, 310. **Three hours per week.**

**414. MATHEMATICAL STATISTICS II 3 hours credit**

Methods of estimating, properties of estimator, hypothesis testing, linear models, least squares, analysis of variance, enumerative data, non-parametric statistics. **Prerequisite:** MATH 413. **Three hours per week.**

**441. ABSTRACT ALGEBRA I** **3 hours credit**  
Introduction to the theory of groups, rings, integral domains and fields, including basic properties of polynomials. **Prerequisite:** MATH 210 and/or MATH 306 (both recommended). **Three hours per week.**

**451. ANALYSIS I** **3 hours credit**  
Modern abstract analysis including topology of the real number system, sequences, continuity and differentiability. **Prerequisite:** MATH 210, 202. **Three hours per week.**

**465. MATHEMATICAL MODELS AND APPLICATIONS** **3 hours credit**  
Mathematical basis for model building; examples of simple models for uncomplicated systems in biology, psychology, business and other fields; finite Markov process; models for growth process. **Prerequisite/Corequisite:** MATH 306. **Three hours per week.**

**471. NUMERICAL METHODS** **3 hours credit**  
Interpolation, functional approximation, numerical differentiation and integration, non-linear equations, systems of linear equations, analysis of error. **Prerequisite:** MATH 311, programming experience.

**480. HISTORY OF MATHEMATICS** **3 hours credit**  
Study of the chronological development of mathematics with emphasis on both the mathematical concepts and the principal contributors to the development of those concepts. **Prerequisite:** MATH 202 and/or MATH 210 (both recommended). **Three hours per week.**

**490. SPECIAL TOPICS** **3 hours credit**  
Enables study in specialized areas such as complex variables, logic, non-Euclidean geometry or other topics suggested by faculty or students. May be taken twice under different titles recorded by the registrar. **Prerequisite:** (For most topics) MATH 306, 310. **Three hours per week.**

**500. FOUNDATIONS OF NUMBER THEORY** **3 hours credit**  
Designed for teachers of arithmetic, with emphasis on the development of the real number system in elementary number theory. **Prerequisite:** One course in college mathematics or consent of instructor. **Three hours per week.**

**502. APPLIED STATISTICS** **3 hours credit**  
The use of linear models in the analysis of data, starting with simple models and going to more complex models. Special attention given to the use and abuse of these models by researchers. **Prerequisite:** A course in statistics (MATH 151). **Three hours per week.**

**506. SELECTED TOPICS** **3 hours credit**  
Designed for students with a major in mathematics to develop topics in mathematics not included in their undergraduate program, or to extend areas previously studied. Specific topic may be indicated on transcript. May be taken twice under different course subtitles recorded with the registrar. **Prerequisite:** Approval of the department.

**507. SEMINAR: ALGEBRA** **3 hours credit**  
A seminar dealing with selected topics from line art and abstract algebra. A seminar paper is required. **Prerequisite:** Approval of the department.

**530. DIRECTED RESEARCH** **3 hours credit**  
Preparation of optional research project in Master of Education program under departmental supervision.

**590. SPECIAL PROBLEMS IN MATHEMATICS** **3 hours credit**  
Individually designed programs including summer workshops and special seminars. Specific topic indicated on transcript.

May be taken twice under different course subtitles recorded with the registrar. **Prerequisite:** Consent of instructor.

## Music (MUSA, MUSC)

**400. RENAISSANCE AND BAROQUE MUSICAL STYLES** **3 hours credit**  
Philosophy, musical forms and styles of the period 1500-1750; study of representative vocal and instrumental music by outstanding composers of the period. **Prerequisite:** MUSC 104 or equivalent. **Three hours per week.**

**401. MUSICAL STYLES OF THE 18TH AND 19TH CENTURIES** **3 hours credit**  
Philosophy, musical forms and styles of the period 1750-1900; study of representative vocal and instrumental music by outstanding composers of the period. **Prerequisite:** MUSC 104 or equivalent. **Three hours per week.**

**403. THE HISTORY OF THE PIANOFORTE AND ITS LITERATURE** **3 hours credit**  
Comprehensive study of the piano and its predecessors. Traces the history of keyboard instruments, emphasizing the ways in which the development of the instruments interacted with the development of keyboard literature and performance practices. Includes familiarization with the principal keyboard composers, performers and instrument makers from earliest times to the present. **Prerequisites:** MUSC 200, 110, 104 or approval of instructor. **Three hours per week.**

**406. THEORY OF ELECTRONIC MUSIC** **3 hours credit**  
Theoretical approach to the practical application of music synthesis through reading, listening, analysis and studio experience. **Prerequisite:** MUSC 112 or permission of instructor. **Three hours per week.**

**408. MODERN MUSIC** **3 hours credit**  
Emergence of new developments from late romantic music through serial and electronic music, including influences of jazz and consideration of social forces and current world events. **Prerequisite:** MUSC 104 or equivalent. **Three hours per week.**

**409. INTRODUCTION TO ETHNOMUSICOLOGY** **3 hours credit**  
Study of music of world cultures not associated with the traditional study of Western art music with emphasis on the musics of Eastern Europe; the Near, Middle and Far East; Africa; the Pacific Islands; and native America. **Prerequisites:** MUSC 104 or 110 and 200 or approval of instructor. **Three hours per week.**

**410. CHURCH MUSIC** **3 hours credit**  
Designed for the practicing or potential church musician. A practical course dealing with all aspects of the church music program. **Prerequisite:** Approval of instructor. **Three hours per week.**

**411. APPLIED MUSIC I** **1-2 hours credit**  
An advanced course in performance techniques using a wide variety of literature. A solo recital (alone or sharing a program with other students) encompassing music of many styles and periods is a required culmination. Students will elect one performing medium (piano or voice or organ or other instrument) and must have completed the fourth course in the sequence for the instrument as a prerequisite. Each course may be repeated for credit once.

**412. APPLIED MUSIC II** **1-2 hours credit**  
Advanced course in performing techniques using a wide variety of literature. A solo recital (alone or sharing a program with other students) encompassing music of many styles and periods as a required culmination. Students elect one performing medium (piano, voice, organ or other instrument)

and must have completed the fourth course in the sequence for the instrument as a prerequisite. Each course may be repeated once for credit.

**416. AMERICAN MUSIC** **3 hours credit**  
Analysis of musical forces and styles as they reflect the nation's development and America's unique contributions to the growth of music as an art form. **Prerequisite:** MUSC 104 or equivalent. **Three hours per week.**

**426. ARRANGING FOR VOICES AND INSTRUMENTS** **3 hours credit**  
Fundamental techniques of scoring for various cappella and accompanied voice combinations, special characteristics of each choir of instruments, range of voices, selection on suitable literature for treatment in different ensembles, with considerations of style. **Prerequisite or corequisite:** MUSC 304. **Three hours per week.**

**435. CHORAL LITERATURE** **3 hours credit**  
Class investigation and evaluation of choral music for all voice combinations appropriate for elementary school through senior high school and adult ensembles. **Prerequisite:** Approval of instructor. **Three hours per week.**

**440. MODERN MARCHING BAND: TECHNIQUES AND MATERIALS** **3 hours credit**  
Detailed work-survey of traditional marching band styles and their adaptation to current trends. **Prerequisite:** Approval of instructor. **Three hours per week.**

**441. INSTRUMENTAL LITERATURE** **3 hours credit**  
Class investigation and evaluation of new methods and materials for bands, orchestras and instrumental ensembles. **Prerequisite:** Approval of instructor. **Three hours per week.**

**450. STUDIES IN MUSIC** **3 hours credit**  
Study of a single composer, musical form, performance medium or technique, or topic in music education. Topic varies semester to semester. May be taken twice for credit. Possible prerequisite(s) listed according to topic by semester. **Three hours per week.**

**490. DIRECTED INDEPENDENT STUDY** **1-3 hours credit**  
Tutorial in any area of music; open to seniors and graduate students. May include continuation of a skills development program begun in the lower-level independent study course, or any type of individual research in music not normally included in courses offered by the department, or individual study of an area needed for teacher certification but not offered by the department in the current semester. Approval in writing of department chair and supervising faculty member prior to registration, with the area of study to be specified in writing. May be repeated for a maximum of six credits.

**500. 20TH CENTURY MUSIC** **3 hours credit**  
Analysis of the manner in which melody, rhythm, harmony, form and orchestral instruments are used by major modern composers. Political, economic and social forces and current world events are considered for their effects on music of our time. **Three hours per week.**

**501. SYMPHONY ORCHESTRA** **1 hour credit**  
Research and performance of major works in orchestral literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**502. SYMPHONY ORCHESTRA** **1 hour credit**  
Continued research and performance of major works in the field of orchestral literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**503. SYMPHONY ORCHESTRA** **1 hour credit**  
Research and performance of major works in the field of orchestral literature using advanced conducting techniques.

**Prerequisite:** Audition. **Three hours studio per week.**

**505. MUSIC HISTORY AND MUSICAL STYLE** **3 hours credit**  
The development of Western musical style is traced from early written records to the present, stressing the continuity of basic musical principles. **Prerequisite:** One course in music history or a stylistic period. **Three hours per week.**

**507. CHAMBER CHOIR** **1 hour credit**  
Research and performance of major works in choral literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**508. CHAMBER CHOIR** **1 hour credit**  
Continued research and performance of major works in the field of choral literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**509. CHAMBER CHOIR** **1 hour credit**  
Research and performance of major works in the field of choral literature using advanced conducting techniques. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**510. RECENT ISSUES AND TRENDS IN MUSIC EDUCATION** **3 hours credit**  
Student-researched seminar presentations on pertinent current issues in general, vocal and instrumental music education. The seminar presentations will, through researching current trends, arrive at conclusions compatible with current practices in music education. **Prerequisites:** ELED 419 and SCED 429 or equivalent. **Three hours per week.**

**512. ADMINISTRATION AND SUPERVISION IN SCHOOL MUSIC** **3 hours credit**  
Deals with the need and purpose of supervision in music. Areas of concentration include factors affecting the learning process, curriculum building, fiscal management, evaluation and staff-community relations. **Three hours per week.**

**515. ADVANCED CHORAL CONDUCTING** **3 hours credit**  
Designed for the practicing choral conductor. Includes techniques, stylistic interpretation, repertoire and organizational problem analysis. **Prerequisite:** MUSC 310 or equivalent. **Three hours lecture, two hours laboratory per week.**

**516. WIND ENSEMBLE** **1 hour credit**  
Research and performance of major works in wind ensemble literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**517. WIND ENSEMBLE** **1 hour credit**  
Continued research and performance of major works in the field of wind ensemble literature. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**518. WIND ENSEMBLE** **1 hour credit**  
Research and performance of major works in the field of wind ensemble literature using advanced conducting techniques. **Prerequisite:** Audition. **Three hours rehearsal per week.**

**520. PHILOSOPHICAL AND PSYCHOLOGICAL PERSPECTIVES IN MUSIC EDUCATION** **3 hours credit**  
A review of philosophical tenets and psychological principles as applied to contemporary music education practices, including the standard and recently developed musical aptitude and achievement tests. **Prerequisite:** Graduate status. **Three hours per week.**

**530. DIRECTED RESEARCH IN MUSIC/MUSIC EDUCATION** **3 hours credit**  
Preparation of optional research project in the M.Ed. program under the direction of departmental faculty. Weekly conference with faculty sponsor.

**538. APPLIED MUSIC IX** 1-2 hours credit  
Individual studio instruction providing a graduate extension of an undergraduate major performing area. **Prerequisite:** Audition.

**539. APPLIED MUSIC X** 1-2 hours credit  
Continued individual studio instruction at graduate level in a major performing area. **Prerequisites:** Audition, MUSA 538.

**590. DIRECTED INDEPENDENT STUDY** 1-3 hours credit  
An individual, graduate tutorial course including research topics not covered in available courses. May be repeated for a maximum of three hours credit under difference course subtitles recorded with the registrar. **Prerequisite:** Written specified area of study approved in writing by department chair and supervising faculty member prior to registration.

## Nursing (NURS)

**415. SPECIAL TOPICS IN NURSING** 1-3 hours credit  
Study of a selected area of nursing. Topics may vary semester to semester. Provides an opportunity for curriculum innovation or meeting the special needs or interests of undergraduate and graduate students. May be repeated for credit under different subtitles. **One to three hours lecture, zero to two hours laboratory per week.**

**457. CULTURAL CONSIDERATIONS IN NURSING** 2 hours credit  
A basis for application of concepts, theories and methodologies from transcultural nursing to the practice of the health professional. Particular emphasis on the influence of culture on human response to health and illness. **Prerequisite:** Junior standing/consent of instructor. **Two hours per week.**

**485. SCHOOL HEALTH** 3 hours credit  
Current issues relevant to the health of school-age children and adolescents. Topics include roles of teachers and health professionals, current health problems and approaches to specific health problems. Intended for students in education and health-related professions. **Prerequisite:** PSYC 300/ EDUC 300/consent of instructor. **Three hours per week.**

**512. ADVANCED HEALTH ASSESSMENT** 4 hours credit  
Provides learning for a comprehensive physical, psychosocial, developmental, occupational and cultural assessment as foundational to advanced nursing practice. Application of history-taking and interviewing skills essential for a comprehensive examination are demonstrated. Physical assessment skills focus on distinguishing normal findings from abnormal findings. Analyzes history, physical examination and laboratory data to formulate an accurate assessment of the client's status and establish priorities of care. **Prerequisite:** BIOL 552. **Corequisite:** Admission to the masters program or permission of instructor. **Two hours lecture, 10 hours clinical practice per week.**

**514. ISSUES IN ADVANCED PRACTICE NURSING** 3 hours credit  
Utilizes a seminar approach to address key issues relevant to the advanced practice roles of nurses. Quality, ethics, and political and legislative issues addressed. Organization of health care delivery systems and the economic implications of health care as they affect clinical decisions and care are explored. Content in professional role development operationalizes the theoretical principles within the specialty of practice. **Three hours lecture per week.**

**515. EPIDEMIOLOGY** 3 hours credit  
Focus on epidemiologic concepts and the incorporation of empirical epidemiologic data into the advanced application of nursing process. Emphasis on the study of health problems affecting families in rural settings. May not be taken by students

who have received credit for NURS 553. **Three hours lecture per week.**

**516. FAMILY NURSING I** 5 hours credit  
Explores advanced theoretical and empirical knowledge related to families, with special attention to families in rural settings. Emphasis on incorporation of this knowledge into the advanced application of the nursing process with the rural family as a client to improve family health. **Three hours lecture, six hours clinical practice per week.**

**517. FAMILY NURSING II** 5 hours credit  
Continues the exploration of advanced theoretical and empirical knowledge related to families in rural settings, with emphasis on the application of research findings. The expanded application of the nursing process focuses on the culture and characteristics of the rural communities in which families live and their influences on health and adaptation. **Prerequisite:** NURS 516. **Two hours lecture, nine hours clinical practice per week.**

**522. CLINICAL THERAPEUTICS** 3 hours credit  
Presents a study of clinical pharmacological and related physiological processes which are basic to advanced nursing practice. Focus on the clinical application of pharmacological agents most frequently prescribed by nurse practitioners. Prescription writing is presented including legal and socioeconomic factors. Clinical thinking is emphasized throughout the course as a necessary component of accountable clinical practice. **Prerequisites:** BIOL 552, admitted to the masters program or permission of the instructor. **Three hours lecture per week.**

**538. NURSING THEORIES** 3 hours credit  
Examines the nature of concepts, models and theories in the context of scientific development and the historical development of nursing knowledge. A comparative analysis of evolving nursing theories will be made in regard to meeting criteria for theory building; major concepts used; theoretical perspective used; testability and practicality for application with the nursing process in clinical practice, teaching and research. **Three hours lecture per week.**

**544. NURSING RESEARCH DESIGNS** 3 hours credit  
Builds upon knowledge of the research process learned at the vaccalaureate level. Focuses on the importance of the research process in the development and testing of nursing theory. Emphasis on the role of the advanced nurse practitioner as a consumer and practitioner of nursing research. **Prerequisite/ Corequisite:** MATH 502.

**554. ADMINISTRATION IN NURSING SERVICE** 6 hours credit  
Focus on the independent and interdependent functions of the nursing service administrator at various levels of decision making in an organization. Affords the opportunity to implement leadership strategies in selected clinical settings with a nursing service administrator as a mentor. Emphasizes the role of the advanced nurse practitioner as a change agent in planning, implementing and evaluating health care for rural families. **Prerequisite:** BUAD 535. **Two hours seminar, 12 hours clinical practicum per week.**

**556. CLINICAL NURSE SPECIALIZATION** 6 hours credit  
Focuses on the diverse clinical and organizational skills necessary for functioning effectively as a clinical nurse specialist in family nursing in varied clinical settings of a rural area. Affords the opportunity to gain expertise in conjunction with a qualified advanced nurse clinician role model and to develop in the leadership role as a family advocate and change agent. **Two hours seminar, 12 hours clinical practicum per week.**

**558. MANAGEMENT OF FAMILY HEALTH I****5 hours credit**

Focuses on health maintenance and primary care of stable, chronic health problems of multicultural adult clients and their families. Uses clinical judgment including critical thinking and diagnostic reasoning as a basis for client management as a family nurse practitioner. Includes use of skilled therapeutic maneuvers appropriate for a family-based rural practice. Reflects competency in the healing role and monitors and ensures the quality of health care practice. **Prerequisite:** NURS 512. **Prerequisite/Corequisite:** NURS 522. **Two hours lecture, 12 hours clinical per week for a total of 180 hours.**

**559. MANAGEMENT OF FAMILY HEALTH II****5 hours credit**

Focuses on health maintenance within multicultural childbearing and childbearing families. Includes prenatal and postpartal care during normal pregnancy and common complications of childbearing. Management of acute self-limiting and stable chronic health problems that affect children's health and women's health are included. Uses clinical judgment including critical thinking and diagnostic reasoning as basis for client management as a family nurse practitioner. Includes use of skilled therapeutic maneuvers appropriate for a family based rural practice. Reflects competency in the healing role and monitors and ensures the quality of health care practice. **Prerequisites:** NURS 512. **Prerequisite/Corequisite:** NURS 522. **Two hours lecture, 12 hours clinical per week for a total of 180 hours.**

**560. INDEPENDENT STUDY****1-3 hours credit**

Focused study on a specific area of advanced practice nursing agreed upon by the student and the faculty. May include preliminary work directed toward a thesis/capstone area of interest, a specialized area of study, or clinical practice. May be taken more than once under different course subtitles recorded with the registrar for a maximum of six hours credit. **Prerequisite:** Written consent of the faculty who will direct the study. **One to three hours per week.**

**580. SPECIAL TOPICS IN NURSING****1-3 hours credit**

Intensive study of a selected topic relevant to nursing in rural areas. May be taken twice under different course subtitles recorded with the registrar. **Prerequisite:** Consent of the graduate nursing program faculty member. **One-to-three hours lecture, zero-to-two hours lab per week.**

**590. THESIS****1-3 hours credit**

Provides an opportunity for the master's level student to conduct formal research related to nursing. Reflects a culminating research study as an independent project under the direction of a thesis chair and committee. Incorporates knowledge from research methodology and analysis learned throughout the program. Requires that the student demonstrate critical thinking, a proficiency in oral and written communication, and use of appropriate information technology. Traditional defense of thesis required. May be repeated; no limit to the number of repeats. **Prerequisites:** MATH 502, NURS 544, and permission of the instructor.

**590. CAPSTONE PROJECT (Independent Study)****1-3 hours credit**

Provides an opportunity for the master's level student to pursue a scholarly study of a clinical case, a topic or an issue relevant to the student's advanced practice role. Reflects a culminating synthesis of knowledge from graduate courses as an independent project under the direction of a project chair and committee. Requires that the student demonstrate critical thinking, a proficiency in oral and written communication, and use of appropriate information technology. May be repeated; no limit to the number of repeats. **Prerequisites:** MATH 502, NURS 544, and permission of the instructor.

**Philosophy (PHIL)****402. THE PROBLEM OF GOD****3 hours credit**

Involves students in thinking through the ultimate questions philosophy asks about God's nature and existence. Attention given to a variety of themes, including the relationship between God and nature, the personhood of God, atheism and the meaningfulness of human speech about God. **Prerequisite:** One philosophy course or consent of instructor. **Three hours per week.**

**403. EXISTENTIALISM****3 hours credit**

Close look at the basic human problems of self, God and others as seen from the existentialist perspective. Major themes of alienation, authenticity, freedom, commitment and dread are traced from their roots in the 19th century philosophies of Kierkegaard and Nietzsche to contemporary expressions by Sartre, Camus, Heidegger and Buber, et al. **Prerequisite:** One philosophy course or consent of instructor. **Three hours per week.**

**406. PHILOSOPHY OF SCIENCE****3 hours credit**

Critical examination of the philosophical problems common to the natural sciences, such as the nature of scientific laws and theories, and problems involved in scientific explanation. **Prerequisite:** One philosophy course or consent of instructor. **Three hours per week.**

**450. PHILOSOPHICAL CONCEPTS IN LITERATURE****3 hours credit**

Examines a philosophical theme (e.g., existentialism, tragedy) as reflected in works of literature. Theme varies semester to semester. **Prerequisites:** ENGL 101, 102 and one philosophy course or consent of instructor. **Three hours per week.**

**475. SEMINAR IN PHILOSOPHY****3 hours credit**

Offers advanced students in philosophy an opportunity to research and reflect on an issue or theme more thoroughly and intensely than is possible in an ordinary course. Content varies semester to semester. May be repeated for credit with faculty approval. **Prerequisite:** Consent of instructor. **Three hours per week.**

**490. INDEPENDENT STUDY****1-3 hours credit**

Tutorial course in a specific problem of philosophy, a particular philosopher or a particular period of philosophy. Open to junior and senior students, conditional on faculty member's consent. May be repeated for credit with faculty approval. **Up to three hours per week.**

**Physical Education (PHEC)****406. ADMINISTRATION AND ORGANIZATION****3 hours credit**

Problems of administration structure and procedures, program planning, organization of physical education classes and departments, and organization of athletic programs. **Prerequisite:** PHEC 250 or consent of instructor. **Three hours per week.** (fall semester only)

**413. ADVANCED TRAINING AND SPORTS MEDICINE****3 hours credit**

Develops advanced knowledge of athletic injuries after the student has completed PHEC 313 or an equivalent. **Three hours per week.** (spring semester only)

**415. CLINICAL ROTATION IN ATHLETIC TRAINING****3 hours credit**

Exposes students to clinical situations which enhance their understanding of the etiologies pertaining to injuries, both athletic and non-athletic. Topics include recognition, treatment,

care and rehabilitation of injuries. **Prerequisites:** PHEC 313, 413; HLTH 201. **Two hours lecture, seven hours clinical per week.** (spring semester only)

**451. PSYCHOSOCIAL ASPECTS OF PHYSICAL EDUCATION** **3 hours credit**  
Interaction of physical education (sports) with the psychology and sociological development of the individual. **Prerequisite:** PSYC 101 or consent of instructor. **Three hours per week.**

**472. ADVENTURE-BASED LEADERSHIP EDUCATION** **3 hours credit**  
Introduces students to experiential, adventure-based education. Students study and practice principles and theories of leadership education within a cooperative learning approach. Can be offered for graduate credit. **Prerequisites:** HLTH 102, junior standing. **Three hours per week.**

**490. SELECTED TOPICS IN PHYSICAL EDUCATION** **1-3 hours credit**  
Provides opportunities for short-term needs and interest of students/faculty. Affords avenue for curriculum experimentation and innovation at an advanced level. Student may earn a maximum of six credits. **Prerequisite:** Consent of instructor.

## Political Science (POSC)

**401. POLITICAL THEORY** **3 hours credit**  
Survey of political thought based on the analysis of ideas of modern theorists, including the historical setting of major theories, their impact on political institutions and social changes and their contemporary significance. **Prerequisite:** POSC 101 or 110. **Three hours per week.**

**409. CAUSES OF WAR** **3 hours credit**  
Explores theoretical explanations of international conflict. Major questions addressed are: What are the primary causes of war? How may war be prevented? **Prerequisite:** Junior/senior standing. **Three hours per week.**

**411. INTERNATIONAL LAW** **3 hours credit**  
Survey of the general principles and specific rules of international law as well as its recent trends and its relations to other aspects of international affairs. **Prerequisite:** POSC 101 or 110. **Three hours per week.**

**417. RUSSIA AND THE SOVIET UNION** **3 hours credit**  
Political development of Russia from the Bolshevik Revolution and Stalinism through the Gorbachev period and collapse of the U.S.S.R. Emphasis on government structure, parties, ideology, political conflict and change. Exploration of political, social, economic, environmental and foreign policy problems of the new Russian state. **Prerequisites:** POSC 101 or 110. **Three hours per week.**

**430. THE CONGRESS IN AMERICAN POLITICS** **3 hours credit**  
Analysis of the structural characteristics and functions of the United States Congress. Factors influencing congressional decision making and the importance of Congress in American political process discussed. **Prerequisite:** POSC 101 or 110. **Three hours per week.**

**440. PUBLIC ADMINISTRATION** **3 hours credit**  
Study of the basic characteristics of modern American governmental bureaucracies, as well as the important issues public administrators face. Exploration of administrative and organizational theories. **Prerequisite:** POSC 101 or 110. **Three hours per week.**

**480. STUDIES IN POLITICAL SCIENCE** **3 hours credit**  
Intensive study of a specialized area of inquiry within the major subfields of political science: American government,

international relations, comparative government, political theory and public policy. May be taken twice under different subtitles recorded with the registrar. **Prerequisites:** POSC 101 or 110, junior/senior class standing. **Three hours per week.**

**490. INDIVIDUAL RESEARCH** **3 hours credit**  
Advanced students, under the direction of a faculty member, pursue a research project involving an in-depth reading program or the collection and analysis of data from primary sources. May be taken twice under different subtitles recorded with the registrar. **Prerequisites:** POSC 101 or 110, junior/senior class standing, consent of instructor who will direct the study. **Three hours per week.**

## Psychology (PSYC)

**401. PHYSIOLOGICAL PSYCHOLOGY** **3 hours credit**  
Presentation of advanced topics of physiological psychology including the morphological, neurochemical and physiological bases of behavior. **Prerequisite:** PSYC 211 and 301, or consent of instructor. **Three hours per week.**

**403. MEASUREMENT AND EVALUATION IN PSYCHOLOGY** **3 hours credit**  
Coverage of correlational techniques, reliability and validity. Psychological tests and questionnaires considered in terms of their measurement assumptions and utility. **Prerequisite:** PSYC 220 or consent of instructor. **Three hours per week.**

**406. PSYCHOLOGY OF ATTITUDES AND ATTITUDE CHANGE** **3 hours credit**  
Concerned with how attitudes are formed, measured and changed. Emphasis on the classical theories and new approaches to attitude formulation and change. **Prerequisite:** PSYC 306 or consent of instructor. **Three hours per week.**

**407. PSYCHOLOGY OF PERSONALITY** **3 hours credit**  
Survey of major theoretical approaches to the origin and development of human personality. **Prerequisite:** PSYC 101. **Three hours per week.**

**408. HISTORY AND SYSTEMS IN PSYCHOLOGY** **3 hours credit**  
Study of basic integrating theories of psychology. **Prerequisite:** PSYC 211, 405 or 407 or consent of instructor. **Three hours per week.**

**409. ENVIRONMENTAL PSYCHOLOGY** **3 hours credit**  
Study of the effects of the environment on human behavior. Consideration given to such topics as organizational structure and climate, architecture, population density and urban stress. **Prerequisite:** PSYC 101. **Three hours per week.**

**410. MULTICULTURAL ISSUES IN PSYCHOLOGY** **3 hours credit**  
A study of the psychological impact of major cultural groups on the behavior, attitudes, thoughts and beliefs of individuals. **Prerequisite:** PSYC 101 or consent of instructor. **Three hours per week.**

**415. MOTIVATION AND EMOTION** **3 hours credit**  
Survey of experimental findings and theory of processes that energize and direct behavior. **Prerequisites:** PSYC 101, 211. **Three hours per week.**

**423. DEVELOPMENTAL DISABILITIES** **3 hours credit**  
Study of children who vary from the norm, including those with physical disabilities, mental disabilities and socio-emotional disturbances. **Prerequisite:** PSYC 320. **Three hours per week.**

**430. APPLIED BEHAVIOR ANALYSIS** **3 hours credit**  
Provides both a theoretical and data driven approach to behavioral engineering in the areas of industry, sports,

education and behavior change in the areas covered under clinical psychology. **Prerequisite:** PSYC 101. **Three hours per week.**

**445. COGNITIVE PSYCHOLOGY** **3 hours credit**  
Study of human cognitive processing. Topics include perception, attention, memory, problem solving, language, reasoning and decision making. **Prerequisite:** PSYC 211. **Three hours per week.**

**450. SENSATION AND PERCEPTION** **3 hours credit**  
Study of human sensory and perceptual systems with emphasis on vision. Perception treated from a physiological, behavioral and cognitive point of view. **Prerequisites:** PSYC 101, 211. **Three hours per week.**

**465. PRINCIPLES AND TECHNIQUES OF GROUP THERAPY** **3 hours credit**  
Study of principles and techniques of group counseling/psychotherapy and their application. Includes a review of the psychological and historical development of group therapy and a study of the pertinent research. Discussions and role playing are important elements of this course. **Prerequisite:** Advanced standing. **Three hours per week.**

**490. INDIVIDUAL DIRECTED STUDY** **1-3 hours credit**  
Enables advanced students to pursue, through observation, experimentation or library research, a topic of their choosing. May be repeated for a maximum of six credits. **Prerequisite:** Consent of department chair.

**495. SELECTED TOPICS IN PSYCHOLOGY** **1-3 hours credit**  
Intensive study in a psychological therapeutic technique, person, developmental period or theory. May be repeated in different areas of study for a maximum of six hours credit. enrolling in any practicum course. **Prerequisite:** Admission to master's program in psychology or consent of instructor. **Three hours per week.**

**503. CHILDHOOD PSYCHOPATHOLOGY** **3 hours credit**  
A study of behavioral problems in children and young people, ranging from mild personality disorders to psychoses. Special consideration given to symptoms, etiology and treatment. **Prerequisites:** Master's degree student and consent of instructor. **Three hours per week.**

**505. PERSONALITY ASSESSMENT** **3 hours credit**  
Focuses on objective and projective personality assessment procedures, including questionnaires, situational tests, attitude scales and behavioral observation. **Prerequisites:** Admission to master's program in psychology or consent of program director, and PSYC 407. **Three hours per week.**

**507. PSYCHOTHERAPY AND COUNSELING I** **3 hours credit**  
The implications for the theory and practice of counseling that might be derived from psychodynamics and interpersonal and experiential sources are studied. **Prerequisite:** Admission to master's program in psychology or consent of instructor. **Three hours per week.**

**508. PSYCHOTHERAPY AND COUNSELING II** **3 hours credit**  
Acquaints the student with principles underlying learning and cognitive processes and their application to behavioral approaches to counseling and therapy. **Prerequisite:** PSYC 507 and consent of instructor. **Three hours per week.**

**511. DIAGNOSTIC TESTS IN COUNSELING** **3 hours credit**  
A study of diagnostic tests in counseling and their relationship to therapeutic procedures in order to better understand clients and improve effectiveness. **Prerequisite:** Master's degree student. **Three hours per week.**

**513. ADULT PSYCHOPATHOLOGY** **3 hours credit**  
Critical examination of issues related to the etiology, diagnosis and treatment of common and rare diseases. Emphasis on clinical decision making and diagnostic skills and understanding models of psychopathology. **Prerequisites:** Consent of instructor and PSYC 302 or equivalent. **Three hours per week.**

**520. INDIVIDUAL INTELLIGENCE TESTING** **3 hours credit**  
Focuses on various individual intelligence and behavioral observation tests of children and adolescents. Emphasizes the administration and the reporting of individual intelligence test results. **Prerequisites:** Admission to the master's program in psychology or consent of program director and PSYC 403 or EDUC 532. **Three hours per week.**

**521. PSYCHO-EDUCATIONAL ASSESSMENT** **3 hours credit**  
Focuses on theory, research findings and clinical applications of major testing instruments for the learning disabled, mentally retarded, emotionally disturbed and physically handicapped. **Prerequisite:** M.A. student. **Three hours per week.**

**524. CLINICAL PRACTICUM I** **3 hours credit**  
First in a two-part series of practicum experiences, this course is designed to provide students with actual training experience in a variety of clinical settings. Includes individual supervision and a weekly seminar on counseling processes and issues related to the roles and functions of counselors and psychometrists. **Prerequisites:** Admission to master's degree program in psychology; consent of instructor; and completion of PSYC 500, 544, 507, 508. **Minimum of 10 hours per week plus supervision.**

**525. CLINICAL PRACTICUM II** **3 hours credit**  
The second in a two-part series of practicum experiences, this course is designed to provide students with counseling and assessment practice with clients who have personal, social, vocational and educational concerns. Includes individual supervision and a weekly seminar on counseling processes and/or assessment issues consistent with the role and function of counselor or psychometrist. **Prerequisites:** Consent of instructor and PSYC 524. **Minimum of 10 hours per week plus supervision.**

**530. DIRECTED RESEARCH** **3 hours credit**  
Preparation of optional research project for students in Master of Education program concentrating in psychology. **Prerequisite:** Consent of department chair.

**531. THESIS** **3 hours credit**

**544. CLINICAL INTERVENTION SKILLS** **3 hours credit**  
Focuses on counseling as a communication process and covers such topics as the counseling relationships, verbal and nonverbal communication, helping stages, and therapeutic intervention strategies involved in the counseling process. **Prerequisite:** Admission to master's program in psychology or consent of instructor. **Three hours per week.**

**555. EXPERIMENTAL DESIGN** **3 hours credit**  
In order to provide students with the necessary research tools to adequately determine the effectiveness of various treatment approaches, this course focuses on the assessment of designs for research questions. **Prerequisite:** PSYC 560 or consent of instructor. **Three hours per week.**

**560. STATISTICAL ANALYSIS OF EXPERIMENTS** **3 hours credit**  
A coverage of the statistical procedures necessary to test hypotheses. Topics to be covered will include test of a single parameter and the differences between two or more parameters. **Prerequisite:** Master's degree student. **Three hours per week.**

**566. ADVANCED GROUP THEORY AND PRACTICE 3 hours credit**

Students receive training and knowledge in the areas of theoretical models for groups, techniques and exercises in facilitating the group process, practice in groups and self-analysis experiences. **Prerequisite:** PSYC 465. **Three hours per week.**

**575. GRADUATE SEMINAR ON AGING 3 hours credit**

An intensive survey of some aspects of human aging. Covers theories, retirement, middle age problems, work, leisure, physical aspects of aging, education and opportunities for the aged. Designed to make students sensitive to the needs of the aged. **Three hours per week.**

**Social Science (SOSC)**

**400. CURRENT PROBLEMS 3 hours credit**

Study made of either general or special topics of our times, considered from the historic aspect and the present social and cultural setting in which they occur. **Three hours per week.**

**Social Work (SOWK)**

**450. SOCIAL WORK WITH FAMILIES AND CHILDREN 3 hours credit**

Survey of child welfare services and examination of current policies in social work for children and their families. Consideration of practice issues in protective services, in-home services to families and substitute care including adoption and foster care. **Prerequisite:** SOWK 200 or consent of instructor. **Three hours per week.**

**455. SUBSTANCE ABUSE: ISSUES AND SERVICES 3 hours credit**

Study of alcohol and drug abuse. Topics include theoretical perspectives on abuse, pharmacological characteristics of commonly abused substances, and stages of dependence and addiction. Overview of societal response to substance abuse including law enforcement, treatment, rehabilitation and prevention. **Prerequisite:** SOWK 300 or consent of instructor. **Three hours per week.**

**460. SOCIAL WORK IN CORRECTIONS 3 hours credit**

Social work interventions in a variety of correctional settings. Focuses on professional role in court and correctional procedures within institutional and community-based programs. **Prerequisite:** SOWK 200 or consent of instructor. **Three hours per week.**

**465. SOCIAL WORK IN HEALTH CARE 3 hours credit**

Explores the role of social work practice in various health care settings. Emphasis on the changing concepts of health and illness. Evaluates the nature of health care organizations, funding mechanisms and ethical dilemmas in social work health care. **Prerequisite:** SOWK 300 or consent of instructor. **Three hours per week.**

**470. SOCIAL WORK IN MENTAL HEALTH 3 hours credit**

Investigates the role of the social work profession within the mental health delivery system utilizing a generalist social work approach. Social work and mental health concepts, policies, research methods and program development examined in social service agencies, community mental health facilities and institutional accommodations. **Prerequisite:** SOWK 300 or consent of instructor. **Three hours per week.**

**484. SOCIAL WORK AND THE LAW 3 hours credit**

Study of social welfare, family, consumer law and the legal authority of social agencies to make regulations. Guidelines for court testimony and rules of evidence presented. **Prerequisite:** SOWK 200 or consent of instructor. **Three hours per week.**

**499. SPECIAL TOPICS 1-3 hours credit**

Provides opportunities for investigating special themes or issues of interest to students and the social work profession. May be repeated once under a different subtitle. **Prerequisite:** SOWK 200 or consent of instructor. **Three hours per week.**

**Sociology (SOCI)**

**409. SOCIOLOGY OF EDUCATION 3 hours credit**

Analysis of public education as a bureaucratic social institution, the countervailing community power structure and the professional role of the educator. **Three hours per week.**

**421. THEORY I, FOUNDATIONS OF SOCIOLOGICAL THEORY 3 hours credit**

An analysis of the historical antecedents and contemporary profiles of sociological theory emphasizing major figures and dominant paradigms. **Prerequisite:** SOCI 101 or consent of instructor. **Three hours per week.**

**422. THEORY II, CONTEMPORARY SOCIOLOGICAL THEORY 3 hours credit**

An analysis of the current state and future directions of sociological theory. **Prerequisite:** SOCI 101 or consent of instructor. **Three hours per week.**

**499. SPECIAL TOPICS 3 hours credit**

Number reserved for courses approved as an experimental response to student interest or community need. May be repeated once under a different subtitle recorded with the registrar. **Prerequisite:** SOCI 101 or consent of the instructor. **Three hours per week.**

**516. INDIVIDUAL DIRECTED STUDY 3 hours credit**

Intensive study in a specific area of sociology agreed upon by student and faculty. May be repeated once under a different subtitle recorded with the registrar. **Prerequisite:** Six hours in sociology, a concentration in sociology and consent of instructor who will direct the study.

**Spanish (SPAN)**

**400. ADVANCED STYLISTICS AND ORAL EXPRESSION 3 hours credit**

Refinement and sophistication of written and oral expression in Spanish. **Prerequisite:** SPAN 310 or equivalent experience. **Three hours per week.**

**403. HISPANIC CULTURE THROUGH LITERATURE 3 hours credit**

Study of modern Spanish and Spanish American literature within its cultural context. Students will explore the literary text as cultural document including the roles of Afro-Hispanics, indigenous peoples, religion, women, politics and poverty in the formation of Hispanic cultures. **Prerequisites:** SPAN 335 or 336 or equivalent experience. **Three hours per week.**

**405. SPECIAL PROBLEMS ON SPANISH 1-6 hours credit**

Individual study of special areas in Spanish linguistics, such as phonetics and diction in the history and evolution of the language or in Spanish and Latin American literature. Advice and direction from a member of the department required. May be repeated by same student with new content. **Prerequisite:** SPAN 320, 321 or consent of department chair.

**410. TOPICS IN HISPANIC LITERATURE 3 hours credit**

In depth study of a particular writer, work, theme or movement in Spanish and/or Latin American literature. **Prerequisites:** SPAN 335, 336 or equivalent experience. **Three hours per week.**

**412. SPANISH LITERATURE OF THE GOLDEN AGE****3 hours credit**

Study of selected masterpieces of Spanish literature of the Sigol de Oro. **Prerequisite:** SPAN 320, 321 or consent of the department chair. **Three hours per week.**

**415. 19TH AND 20TH CENTURY SPANISH LITERATURE****3 hours credit**

A study of the development of movements in Spanish literature of this period through selected works of outstanding authors. **Prerequisite:** SPAN 320, 321 or consent of the department chair. **Three hours per week.**

**417. 19TH AND 20TH CENTURY****SPANISH AMERICAN LITERATURE 3 hours credit**

A study of the development of movements in Spanish American literature of the 19th and 20th centuries. **Prerequisite:** SPAN 320, 321 or consent of the department chair. **Three hours per week.**

**418. CONTEMPORARY LITERATURE IN SPANISH****3 hours credit**

A study of selected contemporary works in Spanish. Selection varies from year to year. **Prerequisite:** SPAN 320, 321 or consent of the department chair. **Three hours per week.**

**495. SPANISH FOR PROFESSIONAL AND SERVICE PERSONNEL I****3 hours credit**

Students develop fluency in spoken and written Spanish. Situational dialogues in cross-cultural settings underline practical intent. Specific applicability for migrant teachers, social workers, business and hospital personnel. **Three hours per week.**

**496. THE BILINGUAL, BICULTURAL CLASSROOM****3 hours credit**

Preparation for those in education whose work may involve contact with students and parents from different language and cultural backgrounds, with emphasis on the problems and needs of the Spanish-speaking child. Studies include cross-cultural communication, survival skills in Spanish and culturally relevant materials. **Three hours per week.**