

## IDENTIFICATION CODE

All Ocean County College course descriptions begin with an identification code consisting of letters and numbers. The letters stand for the discipline area of the course, while the three numbers designate the level of the course as follows:

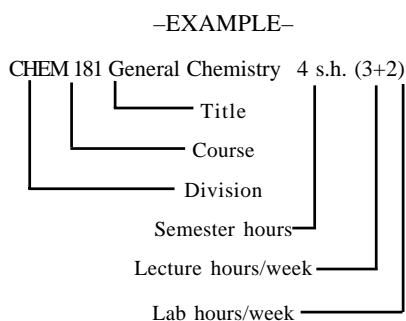
001 to 009 – Service/developmental courses – given at a precollege improvement level, do not carry degree credit.

100 to 199 – First-year-level courses for associate and/or transfer program.

200 to 299 – Second-year-level courses for associate and/or transfer program.

900 to 999 – Service courses – given in adult education and community service programs. Not for degree credit.

After the identification code, the course title is given, followed by the number of semester hours the course carries. Next, in parentheses, are the number of class hours and laboratory hours per week for each course. Certain courses offered but not for college credit carry the designation n.c.



**A first year science course in which student earns 4 semester hour credits. Meets 3 lecture hours and 2 lab hours per week. If no notation, meets 3 lecture hours per week.**

## PREREQUISITES

Prerequisite study must be successfully completed before the student enters certain courses. It is the student's responsibility to ensure that he/she has successfully completed the prerequisite course(s) prior to studying on the higher level. Failure to complete prerequisites successfully will necessitate rescheduling. Course descriptions contain the necessary information.

## COREQUISITE

A course corequisite, if not required to be taken simultaneously, may be taken either before or during the semester in which the course is taken. If a student has completed a higher-level course than the corequisite, the requirement has been met.

### Academic Skills

**ACAD 095 Academic Skills Support I 3 s.h.**  
Formerly AS 095 – This is the first in a sequence of courses designed for students with disabilities who are participating in the DRC. The curriculum focuses on developing learning strategies to enhance learning efficiency and foster independence, increasing one's knowledge of his/her own learning style, learning strengths and weaknesses, strategies for conferencing (self-advocacy), time management, study skills, goal setting, memory and note taking. Prerequisite: Permission from DRC staff and concurrent enrollment in at least one other course.

**ACAD 096 Academic Skills Support II 3 s.h.**  
Formerly AS 096 – This is the second in a sequence of courses designed for students with disabilities who are participating in the DRC. The curriculum focuses on self-actualization techniques, test-taking strategies, paraphrasing and reading strategies, conferencing strategies, and development of effective writing skills through implementation of various writing strategies. Prerequisite: ACAD 095, permission from DRC staff and concurrent enrollment in at least one other course.

**ACAD 097 Academic Skills Support III 2 s.h.**  
Formerly AS 097 – This is the third in a sequence of courses designed for students with disabilities who are participating in the DRC. The curriculum focuses on assisting students in the application and generalization of learning strategies. Critical thinking, reading and writing skills, as well as decision-making skills, are emphasized. Prerequisite: ACAD 095, ACAD 096, permission from DRC staff and concurrent enrollment in at least one other course.

**ACAD 098 Academic Skills Support IV 1 s.h.**  
Formerly AS 098 – This is the fourth in a sequence of courses designed for students with disabilities who are participating in the DRC. The focus of this course will be to work on transitional issues pertaining to the academic/work environment. The issues will include resume writing, interview techniques, self-advocacy in the workplace, and other issues pertinent to the individual student's specific needs. Prerequisite: ACAD 095, 096 & 097; permission from DRC staff and concurrent enrollment in at least one other course; prerequisite: Prior evidence of a disability. Assessment available per recommendation of the DRC.

### Accounting

**ACCT 121 Fundamentals of Accounting 3 s.h.**  
Formerly BU 121 – An introduction to fundamental accounting concepts, bank reconciliation statements, payroll accounting, notes and interest, completion of accounting cycle and financial statements.

**ACCT 161 Principles of Accounting I 3 s.h.**  
Formerly BU 161 – This course starts with the accounting cycle of a service operation. It continues with topics concerning merchandising operations, inventory; cash; property, plant, equipment and intangible asset acquisition, allocation, and disposal. Code 1 course fee. CSIT 123 recommended as a corequisite.

**ACCT 162 Principles of Accounting II 3 s.h.**  
Formerly BU 162 – Continuation of ACCT 161. The formation, operation, and dissolution of partnerships. Accounting for stock transactions and dividends of corporations, long-term liabilities and investments, statement of cash flows, analysis of financial statements, and cost-volume-profit analysis. Code 1 course fee. Prerequisite: ACCT 161.

**ACCT 261 Intermediate Accounting I 3 s.h.**  
Formerly BU 261 – This course covers, in depth, the topics introduced in ACCT 161 and includes the theoretical basis for these accounting principles as regulated by the accounting industry. Prerequisite: ACCT 162. Code 1 course fee.

**ACCT 262 Intermediate Accounting II 3 s.h.**  
Formerly BU 262 – A continuation of ACCT 261. The topics covered in this course include current and long-term liabilities, stock transactions, earnings per share, revenue recognition, income taxes, pensions, leases, and statement of cash flows. Prerequisite: ACCT 261. Code 1 course fee.

**ACCT 263 Cost Accounting 3 s.h.**  
Formerly BU 263 – A course designed to give the student an overview of cost accounting. The topics covered include analysis of types of costs of a manufacturing firm; types of costing systems including process costing, standard, and direct budgeting; and costs, cost-volume-profit analysis, inventory planning, regression and correlation analysis, and PERT. Prerequisite: ACCT 162.

**ACCT 264 Advanced Accounting 3 s.h.**  
Formerly BU 264 – This course is designed to emphasize accounting concepts and an analysis of the problems that arise in the application of these underlying concepts to specialized accounting entities—partnerships, branches, affiliated companies, governmental units, and estates and trusts—and on topics such as segments of business enterprises, accounting for multinational enterprises, and bankruptcy. Prerequisite: ACCT 262.

**ACCT 265 Auditing 3 s.h.**

Formerly BU 265 – This course should help the student prepare for the CPA exam. Topics covered include: the nature and economic purpose of auditing, auditing standards, professional conduct, legal liability of auditors, the auditor's consideration of internal control, audit sampling, the nature of audit evidence, the auditor's reporting responsibilities, and other attestation and accounting services such as compilations and reviews of financial statements and reports on prospective financial statements. Prerequisite: ACCT 262.

**ACCT 266 Federal Income Tax Accounting 3 s.h.**

Formerly BU 26 – Federal Income Tax law as it applies to the individual. Recognition of items of income and deductions including capital gains, losses and tax allowances. Prerequisite or corequisite: ACCT 162.

**ACCT 268 Federal Corporate Taxation 3 s.h.**

This course is a study of United States taxation laws and regulations relating to corporations. Students will learn and analyze these laws and regulations and apply this knowledge by accurately completing the IRS forms and schedules. Prerequisite: ACCT 266. Code 1 course fee.

**ACCT 292 Accounting for Government and Nonprofit Organizations 3 s.h.**

Formerly BU 292 – Students will study the principles and concepts of fund accounting as it relates to government and not-for-profit organizations. Specific topics include: budgeting, fiscal controls, governmental, proprietary and fiduciary funds, reporting, auditing, Government Accounting Standards Board, and the Federal Accounting Standards Advisory Board. Prerequisite: ACCT 162. Code 1 course fee.

**Allied Health****AHAC 145 Animal Control Officers Training 3 s.h.**

Formerly HT 145 – This course is designed to prepare students for State Certification as animal control Officers, for entry level into the field. Topics include: legal authority for animal control, procedures for court action, animal behavior and handling, disease recognition and prevention, community relations and health, shelter operations, and field trips. Code 2 course fee (covers manual).

**AHAH 115 Introduction to Allied Health 1 s.h.**

Formerly HT 115 – A course designed to provide the allied health student with beginning knowledge of the academic and accreditation requirements for successful completion of the allied health programs. Topics will include introduction to various allied health roles and their interrelationships within the health care system professional organizations are presented. Principles of communication and professionalism related to the health care consumers are discussed. This is a prerequisite course to enter the allied health programs. Prerequisites and/or corequisites: Preference will be given to those with prior permission of the department.

**AHEC 130 Early Childhood Nutrition, Health and Safety 3 s.h.**

Formerly HT 130 – This course is designed to present a comprehensive overview of the nutritional, health needs, and safety concepts that are the basis for facilitating physical growth and development of the infant/preschool child. Content will include identification of common childhood illnesses, control of illness and screening for health problems within child care centers. Safety implementation and nutritional requirement adaptations for this population group is a major content focus. Code 2 course fee.

**AHMT 110 Medical Terminology 3 s.h.**

Formerly HT 110 – This course will serve as a basis for students in understanding the specialized language used in fields related to medicine and health care technologies. Content will range from the origin and breakdown of words to a correlation of word elements with basic anatomy, physiology and disease processes of the human. A systems approach will be used to focus learning and provide the student with an organizing framework for analysis and application.

**AHMT 210 Advanced Medical Terminology 3 s.h.**

Formerly HT 210 – This course will serve as a continuation for students who have been successful in completing a basic medical terminology course and have mastered concepts in understanding the language of medicine. It will build upon previously learned techniques analysis of terms and expand into specialty areas related to the health technologies. Content will be organized around a systems approach with correlation of terms to the basic anatomy, physiology and disease processes that occur in humans. Prerequisite: AHMT 110.

**AHPA 220 Pathophysiology 3 s.h.**

Formerly HT 220 – This course is designed to present the student with a comprehensive overview of pathophysiologic processes which are the basis for understanding common diseases and disorders in the human. Concentration will focus upon alterations in the following areas: cellular growth and function, body defenses, oxygenation of tissues, body fluids, metabolism and neuromuscular function. Prerequisites: BIOL 130 and BIOL 131.

**Anthropology****ANTH 233 Introduction to Anthropology 3 s.h.**

This course presents concepts, principles and major areas of anthropology, including the concept of culture as viewed by the anthropologist. Specific areas of study are physical anthropology (evolution of humans, racial classification), archeology (characteristics and development of early cultures) and language as it relates to the biological and social evolution of humans. This course satisfies the Liberal Arts Diversity Requirement.

**ANTH 234 Cultural Anthropology 3 s.h.**

Formerly SS 234 – This course begins with an overview of cultures and how they are studied by the anthropologist. Topics examined are subsistence patterns, language, communication, culture and personality, family patterns, ways of organizing societies, economics and political organizations, social control, religion and magic, the arts and cultural change. Emphasis is placed upon evaluation of other culture in terms of their respective values and norms. This course satisfies the Liberal Arts Diversity Requirement.

**ANTH 235 Urban Anthropology 3 s.h.**

Formerly SS 235 – Urban anthropology is the study of human beings and their cultural institutions in cities. Students will gain a sense of the general theoretical approaches as well as the research methods used in urban anthropology. Topics will include the emergence of cities in human history, their ecological foundations and their cross-cultural differences. This course satisfies the Liberal Arts Diversity Requirement.

**Art****ARTS 159 Visual Literacy 3 s.h.**

Formerly ART 159 – To acquaint the student with the contemporary trends in mass visual media, both print and electronic and to further build an awareness of the aesthetic, esoteric and communicative quality of the visual image, its meaning and quality, as it appears in advertising, journalism, still and motion picture photography, television and computer graphics. Code 2 course fee.

**ARTS 170 Ceramics I 3 s.h. (2 + 2)**

Formerly ART 170 – Basic constructions and designs of clay pottery and sculpture are explored. Methods of making and applying glazes will be demonstrated. Additional laboratory time required outside of class hours. Code 2 course fee. See relevant section for additional costs.

**ARTS 174 Creative Arts for Children 3 s.h.**

Formerly ART 174 – This course deals with the methods and materials appropriate for basic arts experiences in early childhood education. Students will develop strategies and procedures for introducing children to experiences and environments based on cumulative, developmental and diverse learning situations. Projects in visual arts, music, dance and theater will be explored both in class and on site with opportunity and methods for class management and self-assessment. Code 2 course fee.

**ARTS 181 Art History I 3 s.h.**

Formerly ART 181 – A survey of the development of the visual arts from the Prehistoric through the Gothic periods, the course will explore the physical, philosophical, political and sociological means through which cultures define themselves in art works. Emphasis will be on identifying characteristics inherent to works of art and how they relate to former and future work. Code 2 course fee.

**ARTS 182 Art History II 3 s.h.**

Formerly ART 182 – As a survey from the development of the visual arts from the Renaissance through the Impressionist periods, the course will continue the exploration of artistic development through the works of representative artists as they emerge after the 14th Century. Emphasis will be on defining styles associated with particular artists and their time period. Code 2 course fee.

**ARTS 183 Basic Drawing 3 s.h. (2 + 2)**

Formerly ART 183 – Introduction to drawing from still life. Methods of handling charcoal, ink and various drawing materials will be discussed and applied. See relevant section for additional course costs. Code 2 course fee.

**ARTS 184 Two-dimensional Design 3 s.h. (2 + 2)**

Formerly ART 184 – Course exposes students to two-dimensional elements as they appear on the surface of paper. The shape of objects, color, space and texture in relation to self-expression will be of primary importance. Code 2 course fee. See relevant section for additional costs.

**ARTS 185 Figure Drawing 3 s.h. (2 + 2)**

Formerly ART 185 – Disciplined drawing approach to anatomy with emphasis on bone structure, musculature and its influence on surface of the figure. Involvement in creative composition. Prerequisite: ARTS 183. Code 3 course fee. See relevant section for additional costs.

**ARTS 186 Three-dimensional Design 3 s.h. (2+2)**

Formerly ART 186 – Three-dimensional design is learned through demonstrations and student studio projects. The elements of design such as shape, line, space, texture and light are studied in applicable fields such as architecture and interior design. The course also explores the area of non-objective and abstract sculpture with ramifications for its universal use. See relevant section for additional course costs. Code 2 course fee.

**ARTS 205 Art History III - Twentieth Century Art 3 s.h.**

Formerly ART 205 – A survey of art from the emergency of a new direction of art in the late 19th century through its various transformations to the present period. Close attention is paid to the sociological, political and economical context from which the work has materialized. Code 2 course fee.

**ARTS 270 Ceramics II 3 s.h. (2 + 2)**

Formerly ART 270 – Ceramics II is designed to provide advanced study in clay sculpture and pottery. Demonstration and discussion will center around wheel throwing, hand-built sculpture and glaze development. Additional laboratory time required outside of class hours. Prerequisite: ARTS 170 or portfolio equivalent. Code 2 course fee. See relevant section for additional costs.

**ARTS 271 Ceramics III 3 s.h. (2+2)**

Formerly ART 271 – Ceramics III will emphasize advanced techniques in ceramic construction, glaze and clay formulation and studio management. Students will be encouraged to develop and focus their skills in the creative and technical process, while researching historical and contemporary ceramics. Prerequisites and/ or corequisites: ARTS 170, ARTS 270, or permission of instructor. Code 2 course fee. Additional laboratory time required outside of class hours.

**ARTS 272 Ceramics IV 3 s.h. (2+2)**

Formerly ART 272 – Ceramics IV will utilize the students' acquired skills to focus on a technically advanced, portfolio quality, body of work. Emphasis will be made on the personal aesthetics and creative direction so that the student will develop an independent approach to the Ceramic Arts. Prerequisites and/or corequisites: ARTS 170, 270, 271 or permission of instructor. Code 2 course fee.

**ARTS 282 Art Seminar in Italy 3 s.h.**

Formerly ART 282 – The Art Seminar in Italy will provide participants with an overview of the diverse art forms and cultural forces responsible for molding Italy as a preeminent influence in the History of Art. Commencing with a study of the art of Ancient Rome, the survey will progress through Medieval, Renaissance and Baroque styles in such important cities as Rome, Florence and Venice. A brief introduction to Twentieth Century Italian art will conclude the survey. Visits to major museums and historical sites will be enhanced by lectures by both resident experts and OCC faculty.

**ARTS 286 Painting I 3 s.h. (1 + 4)**

Formerly ART 286 – A primary studio course in oil and acrylic painting with instructions in the preparation of canvas and the use of brush and palette knife. Individual demonstrations will be given in relation to still life, landscape, figure and abstract subjects. Code 2 course fee. See relevant section for additional costs.

**ARTS 287 Painting II 3 s.h. (1 + 4)**

Formerly ART 287 – Advanced problems in conceptualization and design of the painting are discussed. Technical process is emphasized. Students will complete oversized canvasses. Group critiques will be conducted and films and day trips to artists' studios and galleries will further broaden the students' experience. Prerequisite: ARTS 286 or permission of instructor. Code 2 course fee. See relevant section for additional costs.

**ARTS 288 Relief and Silkscreen Printing 3 s.h. (2 + 2)**

Formerly ART 288 – The history and techniques of relief printmaking including linocut, woodcut, collagraphy and embossing, and silkscreen including lacquer film stencils, hide glue, positive and negative stencils and photo silkscreen will be examined in Printmaking I. Drawing, composition, design and color will be discussed in their associations with these techniques. Students will be instructed in presentation techniques useful in assembling a portfolio and in exhibiting. Code 2 course fee. See relevant section for additional costs.

**ARTS 289 Lithography and Intaglio Printing 3 s.h. (2 + 2)**

Formerly ART 289 – The history and techniques of lithograph and intaglio printmaking including etching, aquatint, engraving and drypoint will be examined in Printmaking II. Drawing, composition, design and color will be further explored in association with these techniques. Students will be instructed in presentation techniques useful in assembling a portfolio and in exhibiting. Code 2 course fee. See relevant section for additional costs.

**Aviation**

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**Biology****BIOL 114 Principles of Biological Science 4 s.h. (3 + 2)**

Formerly SC 114 – A one-semester laboratory course designed for those who have not had a high school science background, or for those who have graduated from high school ten or more years ago. Includes a study of the cell, its physiology and relationship to the more complicated organism. A study of genetics and heredity as well as evolution is included. With the exception of SCIE 101, this course may not be taken concurrently with or after a science course with a higher course number. Code 3 course fee.

**BIOL 120 Introduction to Human Biology 4 s.h. (3 + 2)**

Formerly SC 120 – This course is designed to provide students enrolled in the General Education A.A., A.S. and Allied Health A.A.S. degrees, along with the Electrology and Exercise Science Certificate Programs with a basic understanding of the structure and function of the human body. There is an emphasis on how the body's internal environment remains relatively constant, within physiology limits. Using the genetic basis of life, DNA, an understanding of how all living organisms use the genes to pass the information necessary to sustain life will be included. This course does not fulfill the general education requirement for laboratory science course. Code 3 course fee.

**BIOL 130 Human Anatomy & Physiology I 4 s.h. (3 + 2)**

Formerly SC 130 – This course studies basic biochemistry and physiology of the cell, histology, the integumentary system, the musculoskeletal system, and the neuro-endocrine system. Dissection and laboratory instrumentation reinforce all lecture material. A non-dissection option is available for part of the course. Prerequisites: High school biology or BIOL 114 required. High school chemistry is required. Code 3 course fee.

**BIOL 131 Human Anatomy & Physiology II 4 s.h. (3 + 2)**

Formerly SC 131 – This course studies the cardiovascular system; the immune system; respiratory, digestive, urinary system; fluid and electrolyte balance; and reproduction. Dissection and instrumentation reinforce all lecture materials. A non-dissection option is available for part of the course. Prerequisite: BIOL 130. Code 3 course fee.

**BIOL 161 Biology I 4 s.h. (3 + 2)**

Formerly SC 161 – Major concepts discussed include cell structure, bio-chemical reactions, energy relationships, evolution and the dynamics of plant functions. High School Biology or BIOL 114 required. High School Chemistry recommended. Code 3 course fee.

**BIOL 162 Biology II 4 s.h. (3 + 2)**

Formerly SC 162 – This course is a continuation of BIOL 161, with emphasis on animal diversity, heredity, development and physiology of various systems. Prerequisite: BIOL 161. Code 3 course fee.

**BIOL 232 Microbiology 4 s.h. (3 + 2)**

Formerly SC 232 – A course concerned primarily with microorganisms as they pertain to human welfare. Laboratory activities relate to isolation, culture, identification and control of microorganisms. Intended for students in allied health programs. Prerequisite: BIOL 120 or BIOL 131 or BIOL 162. Code 3 course fee.

**BIOL 261 Ecology 4 s.h. (3 + 2)**

Formerly SC 261 – An introduction to ecology emphasizing the physical and biological factors affecting distribution, abundance and adaptations of organisms. Statistical analyses of population, community and ecosystem structure and function are performed. Fundamental concepts of behavioral ecology and evolutionary processes in ecology are stressed. Consideration of ecological principles are emphasized by field study in natural habitats and in the laboratory. Prerequisites: BIOL 162. Code 2 course fee.

**BIOL 264 General Microbiology 4 s.h. (3 + 2)**

Formerly 264 – This course is a study of the various groups of microorganisms, their morphology, physiology, biochemistry, genetics and importance to man and all other life forms. The course will emphasize the major microbial model systems, laboratory techniques of growth, control, research utilization, and safety. Current DNA recombinant technology, immunology and biotechnology will also be included. Prerequisite: BIOL 161, 162 or BIOL 161 and CHEM 181. Code 3 course fee.

**BIOL 265 Marine Biology 4 s.h. (3 + 2)**

Formerly SC 265 – A field and laboratory approach to the understanding of the complexity of marine organisms; to include the study of ecological principles that act to structure marine associations with emphasis on local coastal and estuarine communities. Prerequisites: BIOL 162. Code 3 course fee.

**Biotechnology****BTEC 191 Biotechnology Seminar I 1 s.h. (1+0)**

The definition of biotechnology and the implications of the field on society will be investigated. Current applications and controversial issues in general, plant, and industrial biotechnology will be explored. Presentations will be made by students, faculty and visiting scientists. Prerequisite: Permission of the instructor.

**BTEC 293 Biotechnology I: Nucleic Acids 4 s.h. (2 + 4)**

A laboratory course dealing with the theoretical and practical applications of cellular and molecular biology. Particular attention will be given to nucleic acids and DNA technology. The primary model systems utilized will be prokaryotic cells. Major emphasis will be on: solution chemistry, micropipettors, DNA extractions, restriction enzyme fragmentation, electrophoresis, fragment analyses, mapping, gene splicing (ligation), polymerase chain reaction (PCR) and sequencing. Prerequisite: BIOL 264. Code 3 course fee.

**BTEC 294 Biotechnology II: Protein and Tissue Culture 4 s.h. (2+4)**

A laboratory course dealing with the theoretical and practical applications of the cellular and molecular biology of protein molecules and tissue culture. The course will also include an in-depth study of bioinformatics. Prerequisites: BIOL 264, BTEC 293. Code 3 course fee.

**BTEC 295 Biotechnology III: Fermentation and Immunology 4 s.h. (2 + 4)**

A laboratory course dealing with the theoretical and practical applications of fermentation and immunology. Major emphases will be on: preparation and proper handling of microbial cultures, experimental design of fermentation, screening, purification and characterization of fermentation products, ELISA, and monoclonal antibodies. Prerequisites: BIOL 264, BTEC 293. Code 3 course fee.

**BTEC 296 Internship 2 s.h. (0+4)**

This will include special activities in which the student will expand his/her bench experience in real situations. Special emphasis will be placed on preparation of: working solutions; stains; media preparation and sterilization for microbial forms; maintenance of bacterial, fungal, tissue culture and other microbial lines; and an introduction to greenhouse plant propagation. Prerequisites: BIOL 162, CHEM 182 and BIOL 264.

**BTEC 298 Biotechnology Seminar II 1 s.h. (1+0)**

A continuation of Biotechnology Seminar I, in which current applications and controversial issues in the pharmaceutical, agricultural and food industries will be explored. The use of biostatistical analyses will also be investigated. Presentation will be made by students, faculty and visiting scientists. Prerequisites and Corequisites: BTEC 191, MATH 161 and BTEC 293.

## **Business Studies**

### **BUSN 125**

**Introduction to Office Systems 3 s.h.**  
Formerly BU 125 – A foundation course designed to familiarize the student with the fundamental responsibilities of an administrative office manager in a modern technological office. Introductory computer concepts are covered in various software packages including Windows operating system, word processing, spreadsheet, database, presentation calendar and email. In addition to technical skill application, students will develop competency in time management, interpersonal communication skills, file management, reprographics, travel preparations, telephone techniques and records management. Code 1 course fee.

### **BUSN 126 Word Processing 1 s.h.**

Formerly BU 126 – An introduction to word processing to include entering, editing, printing, saving, and retrieving text. Basic formatting features such as print enhancement, size and style of font adjustments, tabulation, margin manipulation and indent features will be demonstrated and applied. Liberal application practice through hands-on experience. Prerequisite: Basic keyboarding skills. Code 1 course fee.

### **BUSN 127 Shorthand I 3 s.h.**

Formerly BU 127 – Principles of Speedwriting Shorthand. Includes theory, brief forms and abbreviations, exercises in word construction and word development, and reading and writing practice for speed and accuracy. Upon completion, the student should be able to take dictation at a minimum rate of 60 words per minute and transcribe manually. This course does not teach the Gregg Method.

### **BUSN 131 Introduction to Business Administration 3 s.h.**

Formerly BU 131 – A thorough survey of the activities that make up the field of business. Emphasis is placed on such topics as ownership management, organization, purchasing, marketing, production, personnel, finance and government regulations. Industry's societal responsibilities relating to pollution, minorities and ethical practices are explored. This course also available in home study mode. Code 2 course fee applies to home study only.

### **BUSN 132 Business Calculations 3 s.h.**

Formerly BU 132 – The student will gain a working acquaintance with printing and electronic display calculators. The student will learn basic operations and apply this knowledge to processing typical business data. Heavy emphasis is placed on percentage, interest, discount, merchandising, proration and depreciation problems. Code 1 course fee.

### **BUSN 133 Microcomputer Keyboarding 1 s.h.**

Formerly BU 133 – Mastery of keyboard and mechanics of the typewriter. Emphasis on correct typewriting techniques to develop accuracy and speed. Presented in computer-assisted instruction mode. Code 1 course fee.

### **BUSN 134 Principles of Marketing 3 s.h.**

Formerly BU 134 – A comprehensive study of the functions and institutions involved in the flow of goods and services from production to consumption. Topics included are: marketing environment and process, consumer behavior, distribution, industrial users, retailing innovations, wholesaling practices, product planning, packaging, selling, advertising, sales promotion and pricing. This course also available in home study. Code 2 course fee applies to home study only.

### **BUSN 135 Keyboarding I 2 s.h. (1 + 2)**

Formerly BU 135 – Beginning keyboarding. Mastery of the keyboard and basic keyboarding functional skills on the IBM Personal Computer. A supplementary micro-computer-aided tutorial is included for individual instruction and practice. Emphasis is placed on correct keyboarding techniques to develop accuracy and speed. The production of personal business correspondence, reports, tables, and forms will be covered. Upon completion, students should be able to keyboard at a minimum rate of 30 words per minute for five minutes with no more than five errors. Code 1 course fee.

### **BUSN 136 Keyboarding II 2 s.h. (1 + 2)**

Formerly BU 136 – Intermediate Keyboarding. Combines continued practice on correct keyboarding techniques and accuracy, with the ability to process a wide range of documents on the IBM Personal Computer. Practical application of business correspondence, business reports, statistical application, tabulation, and integrated skills application will be covered. Upon completion student should be able to keyboard at a minimum rate of 45 words per minute for five minutes with no more than five errors. Prerequisite: BUSN 135 or equivalent. Code 1 course fee.

### **BUSN 140 Supervisory Management 3 s.h.**

Formerly BU 140 – A course designed for practicing or potential first-line supervisors to middle-management personnel. The course explores the role of the supervisor and his/her functions. Concerned with self-development, administrative skills and human relations skills.

### **BUSN 147 Keyboarding /Document Processing I 3 s.h.**

Beginning level Keyboarding/Document Processing I is a comprehensive course that trains the student in keyboarding functional skills, Windows management, computing concepts, and word processing. Students will be able to design and produce professional documents utilizing the most current version of word processing software in a state of the art office simulation laboratory. In addition to document preparation and computing skills, the student will be able to key accurately at 30 wpm. Students may not receive credit for BUSN 135 and BUSN 147. Code 1 course fee.

### **BUSN 155 Introduction to Hospitality 3 s.h.**

Formerly BU 155 – A foundation course designed to prepare students for supervisory roles in service industries such as: hotels, restaurants, resorts, and commercial food operations. The history and current trends of the hospitality industry and hospitality careers will be studied.

### **BUSN 170 Small Business Management 3 s.h.**

Formerly BU 170 – This course emphasizes the aspects of management that are uniquely important to small firms and is designed for the potential entrepreneur as well as the new small business operator. It deals with the environment and management of the small enterprise, the problems of initiating and operating the small business and with such specifics as legal problems, financing, control, marketing, planning, customers, credit, location and employee relations. Code 2 course fee applies to home study only.

### **BUSN 180 Sanitation & Safety in Food Service 3 s.h.**

Formerly BU 180 – An introduction to the principles of operating a sanitary and hazard-free food service facility. A study of the regulations regarding sanitation and safety and the implications for food service management.

### **BUSN 182 Basic Food Production 3 s.h. (2+2)**

Formerly BU 182 – An initial audit of the productive subsystem of the food service system. Components are described and analyzed: the menu through service delivery. An examination of the roles, functions and skills of food service personnel. Lectures present basic food preparation and concepts. Demonstrations illustrate actual techniques and practices.

### **BUSN 184 Hospitality Law 3 s.h.**

Formerly BU 184 – This food service course provides an awareness of the obligations and rights of the restaurateur and the innkeeper. Preventive law is highlighted so possible legal problems can be avoided. Fundamental contract law, state, and local rules and regulations will be stressed.

**BUSN 210  
Business Communications 3 s.h.**

Formerly BU 210 – A study of the principles underlying effective written communications in business. The use of correct and forceful English is stressed in various types of business correspondence. Presented in computer-assisted mode. Prerequisite: ENGL 151. Code 1 course fee.

**BUSN 211 Word Processing/  
Machine Transcription 3 s.h.**

Formerly BU 211 – This course is designed to help the student develop entry-level machine transcription skills. Through a word processing center simulation, students learn to become proficient transcriptionists. Using word processors, students will produce error-free documents representative of realistic business communications. Prerequisites: BUSN 125, BUSN 126, BUSN 136. Code 1 course fee.

**BUSN 214  
Word Processing Applications 3 s.h.**

Formerly BU 214 – A realistic approach to the mastery of modern electronic communication skills. Assuming the role of an intern, the student works in various departments of typical automated companies. Using word processors, students learn document entry, formatting and advanced text editing techniques. Prerequisite: BUSN 126, BUSN 136. Code 1 course fee.

**BUSN 215 Integrated  
Software Applications 3 s.h.**

Formerly BU 215 – Emphasis will be placed on office productivity and the development of a high level of competence in processing documents, preparing presentations, creating and manipulating worksheets, managing and sorting data, and importing and exporting data from one program to another. Ultimately, the student will hold a position in a simulated office environment that requires proficiency in the use of varied application software. Prerequisites: BUSN 136, CSIT 123. Code 1 course fee.

**BUSN 220 Office Management 3 s.h.**

Formerly BU 220 – The course emphasizes the competencies that allow office workers to assume responsibility without direct supervision, exercise initiative and judgment and make decisions within the scope of their authority and the requisites for promotion. Topics included are interpersonal communications, establishing priorities, working with deadlines, time management, mail systems, travel, and career opportunities. Prerequisites: BUSN 210, BUSN 211, BUSN 214. Not open to freshmen. Code 1 course fee.

**BUSN 247 Retailing 3 s.h.**

Formerly BU 247 – An analysis of the organization of retail stores with emphasis on management and merchandising principles as well as trends and developments in retailing practice. Topics included for study and understanding are: merchandise selection, pricing techniques, promotion, site selection, customer service, planning and control. Prerequisite: BUSN 134 or consent of the instructor.

**BUSN 248 Management  
Information Systems 3 s.h.**

Formerly BU 248 – This course demonstrates how to develop and use the basic principles of MIS to balance both technical and managerial concerns regarding the use of computers in business. Through casebook assignments, students have the opportunity to apply and test concepts in a variety of business situations. Prerequisites: BUSN 131 and CSIT 125.

**BUSN 251 Business Law I 3 s.h.**

Formerly BU 251 – A study of the law as it applies to business and consumers. This course covers the structure of the legal system, torts, administrative agencies, the law of contracts, and property. Code 2 course fee applies to home study only.

**BUSN 252 Business Law II 3 s.h.**

Formerly BU 252 – This course is the study of law related to: employment agency, partnership, corporation, sale of goods, and commercial paper. Prerequisite: BUSN 251. Code 2 course fee applies to homestudy only.

**BUSN 267 Real Estate Law 3 s.h.**

Formerly BU 267 – The ownership of real property is regulated by laws governing titles and title transfer. This course deals with Federal and state codes relating to the ownership of real estate and factors affecting transfer of rights in real property. It also deals with the obligations of those who assist in the transfer of real property. Prerequisite: BUSN 251, or BUSN 290 or LAAW 101, or NJ Real Estate Sales License.

**BUSN 270  
Principles of Advertising 3 s.h.**

Formerly BU 270 – A study of various types of advertising, including newspapers, magazines, direct mail, radio, television and outdoor advertising. Current practices of advertising preparation, appeal, copy selection and layout techniques are analyzed. Prerequisite: BUSN 134 or consent of instructor.

**BUSN 271  
Principles of Management 3 s.h.**

Formerly BU 271 – A comprehensive study of the various functions of management to assist students in understanding the interrelationships among the functional areas of a business enterprise, and to see with whom these functional areas interact in organizational decision-making. Designed to develop an ability to objectively analyze and solve management problems. Prerequisite: BUSN 131 or ELET 155 or consent of instructor. Code 2 course fee applies to home study only.

**BUSN 272  
Principles of Investments 3 s.h.**

Formerly BU 272 – Business and personal investments. The theory and operation of the stock market. Investments and their timing with respect to the business cycle. Actual analysis of certain stocks, insurance and real estate.

**BUSN 275 Principles of Finance 3 s.h.**

Formerly BU 275 – An examination of the organization and operation of the American financial system. The principles of money and credit, the financing of business enterprise, foreign trade and government fiscal policy are studied. Prerequisite: BUSN 131, ACCT 161 or consent of instructor.

**BUSN 279 Salesmanship 3 s.h.**

Formerly BU 279 – Techniques of successful selling. Topics include: selection of prospects, the approach, need analysis, sales presentation, overcoming objections, closing the sale and organization of the sales force and its management. Develops persuasive ability and positive attitudes. Prerequisite: BUSN 134 or consent of instructor. Code 2 course fee for home study only.

**BUSN 281 Food Service  
Purchasing and Production 3 s.h.**

Formerly BU 281 – Introduction to the professional procurement of food and beverage products; product knowledge, specifications, evaluation, etc. Receipt, storage and control of menu ingredients. Continuation of food production instruction introduced in BUSN 182. Prerequisite: BUSN 182.

**BUSN 290 Real Estate Principles 5 s.h.**

Formerly BU 290 – Approved by the NJ Real Estate Commission to prepare for real estate sales licensing. A certificate is granted for satisfactory completion (a grade of C is required). Includes: property rights, contracts, mortgages, agency, appraising, NJ Real Estate Law, and other required material. NJ law requires licensees to be high school graduates or hold G.E.D. equivalency.

**BUSN 291 International Business:  
A Cultural Perspective 3 s.h.**

Formerly BU 291 – This course will detail practical terminology, concepts, associations, relationships and issues that are unique to business operations in international markets. It will focus on the impact that cultural diversity has on global business operations. Emphasis will be given to China and other other Pacific Rim nations. Prerequisites: BUSN 131.

## Chemistry

### CHEM 180 Introductory Chemistry 4 s.h. (3 + 2)

Formerly SC 180 – A one semester laboratory course designed for those who have not had a high-school science background or for those who have graduated from high school ten or more years ago. This course may be especially useful for those students preparing to enter the paramedical training programs or those wishing to prepare for college chemistry. The following are covered in this course: Measurement, matter and energy, elements and compounds, atomic structure, periodic law, nomenclature, equation-writing, ichiometrics, pneumatics, solutions, acids, bases, salts, and oxidation-reduction. High school algebra or MATH 011 recommended. Code 2 course fee.

### CHEM 181 General Chemistry I 4 s.h. (3 + 2)

Formerly SC 181 – This course, intended for science majors, is the first course of a two-course sequence. Course topics include stoichiometry, inorganic nomenclature, solutions, gas laws, thermochemistry, atomic structure, and chemical bonding. The laboratory work includes basic laboratory techniques and is intended to support lecture topics. Prerequisite: high school chemistry or CHEM 180 and high school Algebra II OR high school chemistry or CHEM 180 and corequisite of MATH 165. Code 3 course fee.

### CHEM 182 General Chemistry II 4 s.h. (3 + 2)

Formerly SC 182 – This course, intended for science majors, is the second of a two-course sequence. Course topics include colligative properties, chemical equilibrium, acid-base chemistry, kinetics, thermodynamics, electrochemistry, and nuclear chemistry. The laboratory work involves analytical and spectrophotometric techniques relating to lecture topics. Prerequisite: CHEM 181. Code 3 course fee.

### CHEM 283 Organic Chemistry I 4 s.h. (3 + 3)

Formerly SC 283 – This is the first course in a two-course sequence exploring the structure-activity relationships of functional groups. Course topics include nature of the covalent bond, alkanes, alkenes, stereochemistry, reaction mechanisms, and functional group chemistry. The laboratory work consists of basic separation and purification, and synthetic organic laboratory techniques. Prerequisites: CHEM 181 and CHEM 182. Code 3 course fee.

### CHEM 284 Organic Chemistry II 4 s.h. (3 + 3)

Formerly SC 284 – This is the second in a two-course sequence exploring the structure-activity relationship of functional groups. Course topics include the structure and reactions of aromatic compounds, the carbonyl, and nitrogen containing functional groups. Molecular structure determination using infrared and nuclear magnetic resonance is also discussed. The laboratory work includes organic synthesis and qualitative organic analysis. Prerequisite: CHEM 283. Code 3 course fee.

## Chinese

### CHIN 100 Elementary Chinese I 3 s.h.

Formerly CHI 100 – This course, designed for absolute beginners with no previous knowledge of the language, introduces students to spoken Mandarin Chinese with the aid of Pinyin system and elementary level of reading and writing Chinese characters.

### CHIN 102 Elementary Chinese II 3 s.h.

Formerly CHI 102 – This course, a continuation of Elementary Chinese I, is designed for students who have successfully completed CHIN 100. It introduces students to spoken Mandarin Chinese with the aid of Pinyin system and elementary level of reading and writing Chinese characters (simplified). Prerequisite: CHIN 100.

### CHIN 201 Intermediate Chinese I 3 s.h.

Formerly CHI 201 – This course is designed for students who have successfully completed two elementary Chinese courses. Apart from reinforcing pronunciation and tone accuracy, the course will emphasize the basic syntax and grammar as well as build up a working vocabulary around daily situational Chinese. Students will begin to read and write Chinese characters without the aid of the Pinyin system. Prerequisite: CHIN 102.

### CHIN 202 Intermediate Chinese II 3 s.h.

Formerly CHI 202 – This course, a continuation of Intermediate Chinese I, is designed to advance students' skills in both written and conversational Chinese. With spoken Chinese, students are expected to have longer conversations on a wide range of topics. With around 600 commonly used words accumulated in CHIN 100, 102, and 201, students will be trained to write paragraphs in Chinese with the help of a dictionary. In addition, web-based teaching materials will supplement regular classroom instruction. Prerequisite: CHIN 201.

## College Experience

- EXPE 150 and EXPE 295 are writing intensive courses. Students will be expected to use the skills they have acquired or are acquiring in college English classes.
- Students will be expected to demonstrate proficiency in information literacy. Internet access may be required.

### EXPE 105 Personal and Career Development 3 s.h.

Formerly SS 105 – This course provides an opportunity for the student to examine and apply the dynamics of personal development, personality theory, self concept and their interrelationships to the stages of career development. This course may not be used to fulfill the minimum social science general degree requirement, but it may be used as a free elective. Code 1 course fee.

### EXPE 150 The College Experience: A Course For Adjustment To College And College Life 1 s.h.

Formerly SS 150 – In this course, first-semester students will receive a basic foundation of college survival skills which emphasize their adjustment to college and college life. Students will learn fundamental skills, techniques, and resources which will increase their capacity to succeed in college courses. Additionally, an overview of the advisement process will be stressed which will assist students in outlining their educational program at OCC and in developing their course schedule for the upcoming semester. The structure for this course encourages group participation and interaction. (This course may not be used to fulfill the minimum social science degree requirement, but it may be used as a free elective.) It is strongly recommended for students who are enrolled during their first-semester at OCC.

### EXPE 295 College Experience – Honors 1 s.h.

Formerly SS 295 – This course is designed to help the Honors Program student select, research, and write a proposal for an Independent Study project. Fundamentals of research and proper scholarly citation will be examined. The student will submit the proposal for Independent Study to the Honors Committee for final approval. At the discretion of the Committee, the student will meet to discuss his/her proposal with the Committee. Prerequisites: EXPE 150 (Honors) and/or Honors Program student.

## Communication (Journalism/Sign Language)

### COMM 100 Basic American Sign Language I 3 s.h.

This course is designed to introduce students to American Sign Language (ASL), to the visual-gestural language of the Deaf, to Deaf Culture, and to develop receptive and expressive communications skills. Students will be exposed to the basics of ASL transcription symbols, non-manual behaviors, time, classifiers, locatives, temporal and distributional aspects. Information about the Deaf Community and its culture will also be featured throughout the course. Code 2 course fee.

### COMM 102 Basic American Sign Language II 3 s.h.

This course is designed to develop and deepen the skills acquired in COMM 100. Students will move beyond the basic transcription symbols, non-manual behaviors, time, classifiers, locatives, temporal and distributional aspects into more detailed and complex forms of expression. Prerequisite: COMM 100. Code 2 course fee.

**COMM 104  
American Sign Language I 3 s.h.**

ASL I will introduce to the student major language functions of ASL. By learning language functions in interactive contexts, the student will develop conversational skills on a basic level. Students will communicate solely in American Sign Language. Talking will not be permitted in class. Students are required to ascertain 15 contact hours within the Deaf Community. Prerequisite: Permission of Department Dean or instructor. Corequisite: COMM 106

**COMM 105  
American Sign Language II 3 s.h.**

This course is a continuation of ASL I. Training in this course is designed to further develop competency in ASL above the basic level. Focus is on receptive and expressive sign language communication skills. Students are required to ascertain 15 contact hours within the Deaf Community. Prerequisite: COMM 104, COMM 106. Corequisite: COMM 108

**COMM 106 Fingerspelling 3 s.h.**

This course is designed to advance students on the skill development of hand configuration, basic word patterns, rhythm, comprehension of fingerspelled words, phrases, and numbers. Prerequisite: Permission of Department Dean or instructor. Corequisite: COMM 104

**COMM 107  
American Sign Language III 3 s.h.**

This course is a continuation of ASL II. This course will expand the emphasis on ASL grammar and vocabulary development. Students will experience additional in-depth receptive and expressive skill development. Dialogues, short stories, narratives, and conversations will be presented throughout this course. Students are required to ascertain 15 contact hours within the Deaf Community. Prerequisite: COMM 104, COMM 106.

**COMM 108 American  
Deaf Culture and History 3 s.h.**

This course introduces the culture of the Deaf. This course will discuss the values, norms, identities, traditions, and subcultures within the larger culture. This course raises questions of the nature of sign language, the education of the Deaf, and the historical treatment of deafness. Prerequisite: COMM 105, COMM 108. Corequisite: COMM 109

**COMM 109  
American Sign Language  
Syntax and Grammar 3 s.h.**

This course is designed to introduce to the student the grammar and structure of ASL. Students will learn about ASL transcription symbols, sentence types, classifiers, non-manual behaviors, time pronominalization, locatives, pluralization, subjects and objects, verbs, and temporal and distributional aspects. Prerequisite: COMM 105, COMM 108. Corequisite: COMM 107.

**COMM 110  
Introduction to Communications 3 s.h.**

An introduction to the field of communication studies. Topics include forms and processes of human communication; communication as social organization; ways of understanding, analyzing, and evaluating messages; communication technologies; and social, political and ethical issues. Code 2 course fee.

**COMM 111 Sign to Voice 3 s.h.**

This course introduces the students to the theory and practice of processing a signed message into spoken English. This course will emphasize appropriate vocabulary selection, use of syntactically correct English sentences, and appropriate voicing register. Skill development application will be conducted in class. Prerequisite: COMM 112, COMM 113. Corequisite: COMM 115

**COMM 112  
American Sign Language IV 3 s.h.**

This course is a continuation of ASL III. Students will learn advanced conversational skills in ASL. This course will introduce poetry, folklore, and storytelling in ASL. Students must present short stories, narratives, and poetry, at the advanced level, to the class. Students will also learn idiomatic expressions in ASL. Students are required to ascertain 15 contact hours within the Deaf Community. Prerequisite: COMM 107, COMM 109. Prerequisite: COMM 113

**COMM 113  
Introduction to Interpreting 3 s.h.**

This course provides an introduction to interpreting history, ethics, and interpreting in a variety of specialized settings. This course will cover ethics, interpreting process, attitudes, and the role of the interpreter. The student will learn about the Registry of Interpreters for the Deaf (RID) certification process and fees. The student will also learn about the New Jersey State Screening process that will enable students, who pass the screening, to be placed on their registry. Students will also learn about the various devices used by the Deaf community that help them to meet the daily needs of life such as telephones, alarm clocks, smoke detectors, and beepers. Students are required to ascertain 10 field observation hours. Prerequisite: COMM 107, COMM 109. Corequisite: COMM 112

**COMM 114 Communication  
Media Workshop 3 s.h.**

Writing in a workshop format for radio, TV, and other audiovisual and electronic media. Students write and analyze scripts for news, documentary, entertainment, instructional, advertising, and public relations programs. Stresses conceptualization, planning treatments and storyboarding, script writing, editing, revision, and coordination with other production elements. Prerequisites and/or corequisites: ENGL 151, COMM 110. Code 2 course fee.

**COMM 115 Interpreting II 3 s.h.**

This course is a continuation of Interpreting I. In this course students will continue to improve on the skills needed to render professional interpreting. Students will also focus on the skills necessary for the simultaneous interpreting tasks, such as determining lag time, shadowing, focusing on production by modulating delivery, and developing a perceptive ability in their target language through exercises. Students will be taught techniques they can use to maintain and improve their skills on a daily basis. The student will also learn about Overuse Syndrome and common treatments, preventative tips and specially designed exercises utilized to avert this affliction. Students are required to ascertain 10 field observation hours. Prerequisite: COMM 112, COMM 113. Corequisite: COMM 111

**COMM 116 Voice to Sign 3 s.h.**

This course will review ideological components, principles, and practices of interpreting for Deaf people. Strategies for effective listening skills, text analysis, conceptual accuracy and linguistic factors of sign language will be discussed and applied. Classroom exercises will be conducted. Prerequisite: COMM 111, COMM 115. Corequisite: COMM 117.

**COMM 117 Interpreting Lab  
Interpreting Practicum 3 s.h.**

This course allows the student the opportunity to strengthen interpreting skills through a controlled environment. Students will interpret in a variety of interpreting scenarios during mock interpreting situations with Deaf people participating. Students will be videotaped for evaluation. This lab is designed to maximize strength and minimize weaknesses evident during the student's practicum. The practicum will consist of a supervised interpreting experience involving observation and hands on experience in various interpreting situations. The student will be out in the field with a minimum of 9 hours per week (total of 125 hours). The student will log reports and have weekly meetings during class to discuss situations that arise during the student's practicum. A video portfolio is required for this course. Prerequisite: COMM 111, COMM 115. Corequisite: COMM 116

**COMM 130  
Careers in Communication I 1 s.h.**

An overview of career opportunities in communications media. Designed to help each student develop realistic career goals for employment in the media. Code 2 course fee.

**COMM 131  
Careers in Communication II 1 s.h.**

This course assists students with portfolio preparation, resume development, and effective self-promotion. Students will limit and target appropriate sources for internships and eventual employment. Prerequisite: COMM 130. Code 2 course fee.

**COMM 150 Word Processing for Media Writing 1 s.h.**

A mini-course for journalism majors only to acquaint them with word processing terminology and to give hands-on experience in entering, editing and printing text on the Macintosh. Corequisite: COMM 151

**COMM 151 Media Writing I 3 s.h.**

Media Writing I is designed to teach students the basics of news style; how to write good leads and simple, basic news stories; how to evaluate and select news for publications and how to gather information and develop a news story from it. The course will instill high regard for accuracy, adequacy and fairness. Corequisite: Typing proficiency and COMM 150. Code 2 course fee.

**COMM 152 Media Writing II 3 s.h.**

Media Writing II is designed to give the student experience in covering specialized areas of reporting. The course will further develop the skills taught in COMM 151, with special emphasis on developing interviewing skills and the ability to practice in-depth, interpretative, investigative and, possibly, team reporting. Feature writing will be introduced, as will the copy-flow functions of the newsroom. Sensitivity and speed in editing and headline writing will be developed. Prerequisite or corequisite: COMM 150. Code 2 course fee.

**COMM 154 Fundamentals of Public Speaking 3 s.h.**

Development and improvement of public speaking skills. Practice in organizing, outlining and delivering brief talks. Code 2 course fee.

**COMM 161 Student Media Workshop I 1 s.h.**

Student Media Workshops I, II, III and IV are designed to provide practical experiences in journalism. Many students enrolled in these workshops are staff members of the campus newspaper, the Viking News. Student Media Workshop I emphasizes training in reporting or photography, with individualized instruction and attention to the details of information gathering and modern news-story and feature-story writing. Students also may work on Reflections, the campus yearbook, or Seascope, the campus literary magazine.

**COMM 162 Student Media Workshop II 1 s.h.**

A continuation of COMM 161. The course provides the student with an opportunity to develop in depth the skills learned in COMM 161.

**COMM 172 Communication Law 3 s.h.**

This course is a study of the rights and responsibilities of the press in the United States from origins to applications in modern society. Emphasis is placed on the constitutional and statutory laws and regulatory agencies affecting the operations of the press and special attention is given to recent Supreme Court rulings. Codes of ethics and other extra-legal considerations of the role of the press are studied.

**COMM 192 Voice and Diction 3 s.h.**

This course is designed to develop good speech. Careful individual analysis of each student's voice is provided. Included are drills and speech exercises to improve voice quality and articulation based on an understanding of the speaking mechanism and of elementary phonetics.

**COMM 202 Intercultural Communication 3 s.h.**

Exploring the influence of culture on perception and identity, student gain an understanding of the communication challenges in cross-cultural encounters, and they acquire effective strategies for enhancing intercultural communication competence. Prerequisite or corequisite: ENGL 151.

**COMM 209 Introduction to Language 3 s.h.**

This course examines some of the fundamental concepts of language with emphasis on the social functions of language. The major areas discussed are language and gender, language variation, language and culture, and language change. Prerequisite: ENGL 151.

**COMM 261 Student Media Workshop III 2 s.h.**

Student Media Workshop III emphasizes training in editing, headlining, proofreading, photography, business management, makeup and general newspaper production, with individualized instruction in these areas for the student whose major interest is newspaper work. The course also provides an opportunity for some students to pursue interests in magazine, yearbook or broadcast journalism. Arrangements have been established for editors of the campus literary magazine, Seascope; the editor of the college yearbook, Reflections, and the executive board and persons who hold supervisory positions on the campus radio station, WOCC to enroll in this course and receive academic credit for and letter-grade evaluation of specified tasks. Individualized instruction is the cornerstone of this course.

**COMM 262 Student Media Workshop IV 2 s.h.**

Student Media Workshop IV is a continuation of COMM 261 and provides an opportunity for the student to develop in depth the skills learned in COMM 261.

**COMM 272 Public Relations and Publicity 3 s.h.**

This course is a study of the methods, tools and media used in the planning and development of public relations programs for business, industries, non-profit institutions and community organizations. In particular, publicity and promotional techniques, copy preparation, news releases, the theory and practice of arranging publicity materials in campaigns to promote and interpret personal, institutional and organizational objectives and activities and the relationship of public relations to the media are emphasized. Prerequisite: ENGL 151 or permission of instructor.

**COMM 278 Mass Media and the Public Mind 3 s.h.**

This course encourages the student to investigate and evaluate the methods and impact of mass media (advertising, cartoons, graffiti, journalism, popular literature, contemporary music, photography, motion pictures, radio and television). Recognizing the various ways these media are utilized daily to influence individuals is emphasized. Prerequisite: ENGL 151.

**COMM 281 Mass Communications 3 s.h.**

This course is designed to help the student understand the roles played by various media in the United States; develop an understanding of various theories relating to press freedom; develop some knowledge of the history of journalism in the United States; gain some understanding of current criticism and challenges facing various branches of mass media; develop some understanding of the role of mass media in relation to society as a whole; cover the role, characteristics, interactions and major problems of newspapers, radio, television, magazines, films, books, advertising and public relations; and deal with basic theories of communication and mass communication, the major developments in the evolution of the mass media in the United States and the nature of press freedom and its conditions in different areas of the world. Field trips to a newspaper, a radio station and a cable television station may be included if feasible.

**COMM 283 Introduction to Radio 3 s.h.**

This course is designed to initiate the student into the operation of a local radio station and to provide a working knowledge of the methods and procedures of reporting for the electronic medium and of the planning and editing of radio news programs. Students will be prepared to become disc jockeys or radio announcers for basic radio control-room operation. Audio-console operation, patching, studio setup, audio-tape splicing and basic program production (writing, producing and directing of radio dramas, news documentaries, public affairs programs and commercials) will be taught. Studio time is required.

**COMM 290 Communications Internship I 3 s.h.**

This course offers students the opportunity to gain practical experience in technical support positions in the arts, educational/instructional media, or for business/industry in-house productions. Students will apply academic knowledge to the workplace. Prerequisites: Permission of instructor.

**COMM 291 Communications Internship II 3 s.h.**

This course offers students the opportunity for increased practical experience in technical support positions in the arts, educational/instructional media, or for business/industry in-house productions. Students will apply academic knowledge to the workplace. Prerequisites and/or corequisites: Permission of instructor.

## Computer Studies

For Computer Systems Engineering, see page 77.

### CSIT 110 Computer Literacy 3 s.h.

An introductory course designed to provide students with a fundamental understanding of computers and information. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and data base management, search tools) to gather, analyze, organize and present information, and the social and ethical aspects of the impact of computers on society. Students may not enroll for credit in this course if they have earned credit for a higher-level computer science course. Open lab time required. Code 2 course fee.

### CSIT 120 Internet Essential/HTML 3 s.h.

This course will provide an introduction to the Internet World Wide Web (WWW) for the novice. The course will cover getting on the Internet, and using the Internet as a research tool including search engines, databases and correct citations. The course also introduces HTML and the creation of web sites. Open lab time required. Prerequisite: Working knowledge of Microsoft Windows. Code 2 course fee.

### CSIT 123 Integrated Office Software 3 s.h.

This course is designed to teach the skills necessary to design, produce and integrate documents, worksheets, databases and professional presentations. The course will emphasize a hands-on project oriented approach to problem solving. The student will be using the microcomputer in a Windows environment with a modern integrated office software package (Microsoft Office). Students may not receive credit for both CSIT 123 and CSIT 125. Working knowledge of Microsoft Windows suggested. Open lab time required. Code 2 course fee.

### CSIT 126 Intermediate Spreadsheets and Database 3 s.h.

This course expands on the introductory spreadsheet and database concepts presented in Integrated Office Software. Applications include the use of personal computers and integrated software (Microsoft Excel, Access and Visual Basic) to solve contemporary non-discipline specific information processing problems. Students may not receive credit for both CSIT 125 and CSIT 126. Open lab time required. Prerequisite: CSIT 123 or permission of the instructor. Code 2 course fee.

### CSIT 130 Web Site Design 3 s.h.

Students will learn how to plan and implement a fully functional web site. Topics will include planning, information design and delivery concepts, navigational structure, graphics, and continuing maintenance. Web designers who complete this course will have a fuller understanding of web site "style" and the importance of good design in creating an effective web site. Students should have a basic knowledge of HTML and some experience producing web pages. Open lab time required. Prerequisite: CSIT 120 or demonstrated home page design or consent of instructor. Code 2 course fee.

### CSIT 131 Multimedia for the Web 3 s.h.

This course is designed to provide an overview of multimedia concepts and applications using the most prevalent software for multimedia design. This course will concentrate on creating graphics and small animations for use in conjunction with web design and other applications (such as Excel and PowerPoint). Discussion of vector versus raster graphic will be stressed. File types such as GIF, BMP, JPG among others will be compared and contrasted in order to provide the student with the skills needed to ascertain the best method for file; and which type to use in order to minimize the file size and save in the download process. Students will work in both 2-D and 3-D space, building on previous lessons to gain insight into the new dimension graphics. The course will improve the skills and knowledge of current, as well as aspiring publishers and web designers. Open lab time is required. Prerequisites: Students must have a working knowledge of Windows, Web Page Design and Microsoft Office software. Code 2 course fee.

### CSIT 132 Internet/Intranet Application Development 3 s.h.

This course is a project-oriented course designed to explore internetworking applications and development with a focus on the intra, inter and extra net concepts, security issues and design criteria. Students will use modern Web development technology tools (ColdFusion) in all lab exercises and projects to reinforce the concepts and techniques taught. Open lab time required. Spring semester only. Prerequisites: Database, Programming and Web Site Design Experience. Code 2 course fee.

### CSIT 140 Introduction to Computer Organization 3 s.h.

An introduction to the organization of computer hardware. Topics include data representation within the computer, number systems, the instruction set, basic logical structures and operating systems. Open lab time required. Fall semester day and evening sections; spring semester day sections only. Code 2 course fee.

### CSIT 144 UNIX 3 s.h.

A course designed to enable the student to use the UNIX operating system. Topics include basic commands, compilers, editors, text processors, shell and awk programming, file system organization and basic administration. Students will have access to the computers housed in the Computer Science building. Open lab time required. Code 2 course fee.

### CSIT 152 Intermediate Spreadsheet Applications with VBA 3 s.h.

A course designed to teach automated spreadsheet projects through the use of a widely used software application package (Microsoft Excel). Students will design and implement a realistic professional-looking project. Students will have hands-on access to an IBM compatible computer using Windows. Open lab time required. Prerequisite: Prior knowledge of spreadsheets. Spring semester evening sections only. Code 2 course fee.

### CSIT 153 Database Applications with VBA 3 s.h.

A course designed to teach database management systems through the use of a widely used applications software package (Microsoft Access). Students will design and implement a realistic professional-looking relational database project. Students will have hands-on access to an IBM compatible computer using Windows. Open lab time required. Prerequisite: Prior database knowledge. Fall semester evening sections only. Code 2 course fee.

### CSIT 160 Introduction to Visual Basic 3 s.h.

An introduction to structured procedural and object oriented/event driven programming using Visual Basic. Students will gain hands-on experience with microcomputers while completing programming assignments. Working knowledge of Microsoft Windows required. Open lab time is required. Code 2 course fee.

### CSIT 161 Advanced Visual Basic 3 s.h.

This course presents the Rapid Application Development (RAD) approach to Windows programming using a modern object oriented language (Visual Basic). The course will emphasize the design, development and implementation of event driven programs. The programs will utilize the Windows graphical user interface as well as dynamic interaction with other Windows applications using OLE. Students may elect to use the department's computer facilities to develop all programming assignments. Working knowledge of Microsoft Windows required. Open lab time required. Prerequisite: CSIT 160 or CSIT 171 or permission of the instructor. Code 2 course fee.

**CSIT 169 Application Programming in COBOL 4 s.h.**

This course uses the COBOL programming language to provide a structured approach to file processing, table processing, data manipulation and validation, report and screen layouts. Object oriented programming using COBOL will be introduced. Code 2 course fee.

**CSIT 171 Computer Programming I 3 s.h.**

This course introduces the student to the software development process and programming. Topics include the structure and design of algorithms, data types, function modularity, documentation and an introduction to object oriented programming. Students will develop programs using the department's computer facilities and a modern structured procedural and object oriented programming language (C++). This is the first course in a two semester sequence designed for computer science majors. Working knowledge of Microsoft™ Windows required. Open lab time required. Corequisite: CSIT 140. Prerequisite: Basic typing skills. Fall semester day and evening sections; spring semester day sections only. Code 2 course fee.

**CSIT 172 Computer Programming II 3 s.h.**

This course continues the study of the software development process begun in CSIT 171. Additional topics include object oriented modeling, inheritance, polymorphism, dynamic memory allocation, files, arrays, sorting, searching, string manipulation, stacks, queues, linked lists and the software life cycle. Students continue working with the department's computer facilities and a modern structured procedural and object oriented programming language. Open lab time required. Prerequisite: CSIT 171 or permission of the instructor. Spring semester day and evening sections; fall semester day sections only. Code 2 course fee.

**CSIT 174 Computer Systems 3 s.h.**

A presentation of the basic concepts of computer systems, computer architecture and assembly language programming. The student will complete assembly language programs implementing high level language constructs, macros, and subroutines for 8086 based microcomputer systems under the MS-DOS operating system. Open lab time required. Prerequisite: CSIT 140 or permission of instructor. Code 2 course fee.

**CSIT 181 Cisco Networking Fundamentals I 3 s.h.**

This course, the first in a six credit sequence, fulfills the Cisco Networking Academy Program semester 1 and 2 requirement. Instruction includes, but is not limited to, networking, network terminology and protocols, network standards, LANs, WANs, OSI models, cabling, cabling tools, routers, router programming, network physical and logical topologies, and IP addressing. Emphasis is given to the use of decision-making and problem-solving techniques in applied science, mathematics and communications in the solution of networking problems. From the instruction the student learns the principles and practices of networking technology and completes the first half of the Cisco Academy training to be eligible to take the Cisco Certified Network Associate (CCNA) exam. This is an intensive curriculum where student Web access and self-discipline is mandatory in order to adequately prepare for each in class session. This is a demanding course and only motivated students should enroll. All testing and lab assignments will be completed in the classroom/lab setting. Code 2 course fee.

**CSIT 182 Cisco Networking Fundamentals II 3 s.h.**

This course, the second in a six credit sequence, fulfills the Cisco Networking Academy Program semester 3 and 4 requirement. Instruction includes, but is not limited to, networking, network terminology and protocols, network standards, LANs, WANs, OSI models, cabling, cabling tools, routers, router programming, network physical and logical topologies, and IP addressing. Emphasis is given to the use of decision-making and problem-solving techniques in applied science, mathematics and communications in the solution of networking problems. From the instruction the student learns the principles and practices of networking technology and completes From the instruction the student learns the principles and practices of networking technology and completes the second half of the Cisco Academy training to be eligible to take the Cisco Certified Network Associate (CCNA) exam. This is an intensive curriculum where student Web access and self-discipline is mandatory in order to adequately prepare for each in class session. This is a demanding course and only motivated students should enroll. All testing and lab assignments will be completed in the classroom/lab setting. Prerequisite CSIT 181 or permission of the instructor. Code 2 course fee.

**CSIT 184 Networking Essentials 3 s.h.**

This course will examine the conceptual and physical structure of industry-wide computer networking standards. This project-oriented course will provide specific examples of network architectures and protocols with an emphasis on Local Area Networks and Microsoft Networks in particular. Working knowledge of Microsoft™ Windows required. Open lab time required. Prerequisite: Familiarity with MS-DOS or permission of the instructor. Fall semester evening sections only. Code 2 course fee.

**CSIT 212 Systems Analysis 3 s.h.**

The focus of this course is the problem solving, communication and design skills utilized in systems analysis. Case studies are used to illustrate the system analysis, design and development activities used in the initial automation and revision of computerized applications. File and database structures are discussed and applied. In addition, documentation techniques are discussed and illustrated. The student will complete a system analysis project. Working knowledge of Microsoft™ Windows required. Prerequisite: CSIT 160 or CSIT 171 or permission of the instructor. Spring semester evening sections only. Code 2 course fee.

**CSIT 213 Database Management 3 s.h.**

A course emphasizing the concepts and structure necessary to design and implement database management systems. Hierarchical network and relational models will be evaluated. The student will design and implement a project using a modern relational database package, report generator and SQL. Open lab time required. Prerequisite: Prior programming and relational database experience or permission of the instructor. Fall semester evening sections only. Code 2 course fee.

**CSIT 231 Programming Dynamic Elements for Web Pages 3 s.h.**

This course provides an overview of dynamic and interactive web pages. This course concentrates on client side and object-oriented core technologies, such as, JavaScript, ActiveX, DHTML, and VBScript. The course improves the skills of current and aspiring website authors and Internet/Intranet developers. Open lab time required. Prerequisite: Programming (CSIT 161 or CSIT 172) and CSIT 130 or permission of the instructor. Code 2 course fee.

**CSIT 260 Application Programming in C++ 3 s.h.**

This course uses an applied approach to teach the C++ programming language to solve a wide range of application problems. All examples will emphasize external modules (functions), parameter passing and use of appropriate objects. The student will develop a final comprehensive project, utilizing various file access techniques. Prior programming experience is required. Students may elect to use the department's computer facilities to develop programming assignments. Open lab time required. Prerequisite: Prior programming experience. Code 2 course fee.

**CSIT 270 Programming in Java 3 s.h.**

This course provides an introduction to platform independent object-oriented programming using Java™. The course is intended to enable students to design and implement Internet World Wide Web, stand-alone and thread-based concurrent applications. Java™ facilities addressed include applets, exception handling, security, GUI (the abstract window toolkit), file system interface, network interface and threads. Effective uses of Java™ for Object Oriented Programming are demonstrated with realistic examples using Java class libraries. Open lab time required. Prerequisite: CSIT 172 or Object-Oriented Programming or permission of the instructor. Code 2 course fee.

**CSIT 271 Data Structures and Algorithm Analysis 3 s.h.**

This course examines the representation, implementation and application of data structures. The data structures include arrays, stacks, queues, linked lists, trees, graphs, networks and databases. Algorithms are developed to operate upon these structures. All assignments will be programmed in a modern structured procedural and object oriented programming language (C++). Open lab time required. Prerequisite: CSIT 172 or permission of instructor. Code 2 course fee.

**CSIT 281 Network Management 3 s.h.**

This course is designed to focus on the tasks and issues involved in the administration of several industry-standard network operating systems. Students will further their knowledge of network management through hands-on laboratory exercises in which they configure and manage network resources, create and maintain user logons, troubleshoot performance restrictions and perform security auditing procedures. Open lab time required. Fall semester only. Prerequisites: CSIT 184 and Programming Experience or permission of the instructor. Code 2 course fee.

**Civil Engineering Technology**

See page 76.

**Criminal Justice**

- Many Criminal Justice courses are writing intensive. Students will be expected to use the skills they have acquired or are acquiring in college English classes.
- Students will be expected to demonstrate proficiency in information literacy. Internet access may be required.
- Some Criminal Justice classes have a required field visit and/or service learning component.
- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.
- Note: Graduates of the Ocean County Police Academy and students with field experience in law enforcement may receive college credit for prior learning and/or experience with the approval of the Criminal Justice Coordinator.

**CRIM 150 The Criminal Justice System 3 s.h.**

Formerly CJ 150 – An introduction to the philosophy of justice, identification of the various subsystems and the significance of their interrelationships; analysis of past, present and future expectations in law enforcement; judicial and corrections discipline; role expectation; ethics and the need for professionalism.

**CRIM 151 Police Organization and Administration 3 s.h.**

Formerly CJ 151 – This course examines the organizational framework, authority structures and major function of representative police agencies. Analysis is made of the administrative problems of allocating responsibility and support functions and of coordinating many large and small area commands. Recruitment, career advancement and selection of leadership are areas of special comment.

**CRIM 152 Introduction to Law Enforcement 3 s.h.**

Formerly CJ 152 – This is a comprehensive analysis of the development of law enforcement in America from the origin in England to modern day policing. It examines all aspects of law enforcement from patrol to investigations. Current police practices, policies, and enforcement methodology are explored with an emphasis on the role of the police officer in society.

**CRIM 154 Criminal Investigation 3 s.h.**

Formerly CJ 154 – This course is an introduction to criminal investigation as a timeless and dynamic field of scientific study. It examines all aspects and fundamentals of criminal investigation as practiced by police officers. An underlying theme of the course is the responsibility of conducting investigations within the framework of the constitution and the practices of a dynamic society.

**CRIM 155 Introduction to Corrections 3 s.h.**

Formerly CJ 155 – Students will gain an overview and conduct critical analyses of contemporary correctional theory and practice. Comparisons of mainline American corrections with historical, cross-cultural, philosophical and non-traditional views of corrections will be made. Students will examine the various components of the system including prisons, jails, probation, parole and community corrections as well as controversial issues in contemporary corrections, such as prisoner rights, victimization, the death penalty and institutional corrections.

**CRIM 236 Criminology 3 s.h.**

Formerly SS 236 – An analysis of the scientific study of crime and an examination of the varied and changing theories and methods of dealing with its perpetrators. Consideration is given to the social, environmental and economic factors in crime and the basic ideas of English and American criminology. Prerequisite: SOCI 181 or equivalent.

**CRIM 237 Juvenile Justice 3 s.h.**

Formerly SS 237 – This course examines the philosophy, structure and procedure of the juvenile justice system. Major perspectives on the control, care and treatment of juvenile offenders will be explored. Prerequisite: SOCI 181 or equivalent.

**CRIM 254 Constitutional Law and Rules of Evidence 3 s.h.**

Formerly CJ 254 – An analysis of the historical development of the constitutional relationship between the individual, the states and the Federal government; and the application of the Bill of Rights to the states through a study of the leading Supreme Court decisions. The second half of the course is devoted to a study of the rules of evidence with particular emphasis upon judicial notice, presumptions, the nature of real and circumstantial evidence, burden of proof, province of court and jury, documentary evidence, hearsay evidence, confessions, admissions and witnesses.

**CRIM 255 Criminal Law and Procedure 3 s.h.**

Formerly CJ 255 – A comprehensive analysis of the New Jersey criminal statutes as to classification, elements of proof, intent, conspiracy, responsibility, parties and defense. The second half of the course deals with the machinery by which justice is administered. Typical criminal proceedings from institution to enforcement of judgment are examined in detail, including the jurisdiction, organization and constitution of the several tribunals, administrative as well as judicial.

**CRIM 256 Seminar in Criminal Justice 3 s.h.**

A comparative analysis of the criminal justice in the United States and a foreign country. The course presents an overview of the foreign system of police, prosecution, courts and corrections. On-the-scene examination of the foreign system is a crucial aspect of the course with visits to police headquarters, courts, drug clinics and correctional facilities. Instruction will include lectures, readings, discussions and meetings with working members of the foreign criminal justice system. Each student will write an investigative paper on a scheduled topic relevant to a specialized field of study. This course is offered only as part of the International Education program. Prerequisite: CRIM 150 or equivalent.

**Dance**

**DANC 160 Modern Dance 3 s.h. (2 + 2)**

Formerly DA 160 – This study treats the body as a unity, combining the techniques of modern dance and ballet to train the torso and extremities simultaneously. The modern dance components consist of basic floor sequences proceeding from an understanding of the principles of contraction and release of abdominal and back muscles. Ballet barre exercises are included for the purpose of developing feet, legs and arms to enable the student to perform competently in space-off the floor. Recommended for dance-oriented students who need to round out their dance education; for actors who seek an understanding of how their bodies can function most effectively in dramatic expression as well as in ordinary, but controlled, stage movement; and for students generally who are interested in self-improvement and assuring their physical well-being. Code 2 course fee.

**DANC 170 Ballet I 3 s.h. (1 + 3)**

Formerly DA 170 – The dancer is both the performer and the performing instrument. This course concentrates on forging the instrument through an intellectual as well as a physical approach. An economy of effort for maximum achievement can only be realized through an educated understanding of the musculature into a strong, controlled, flexible and enduring organism capable of meeting the special demands requisite to artistic expression through dance. Code 2 course fee.

**DANC 171 Ballet II 3 s.h. (1 + 3)**

Formerly DA 171 – An extension and amplification of DANC 170 which involves intensive application of the principles learned there. The student is provided an opportunity to a full bar sequence, adagio and basic coordination, thereby increasing the potential for development in muscle-toning, and proficiency in performing the various ballet exercises. Code 2 course fee.

**DANC 180 Jazz Dance 3 s.h. (2 + 2)**

Formerly DA 180 – This is an introductory course in jazz dance technique, basic to theatrical dance. Students will develop skills in standard jazz movement–extensions, isolations, and contractions, and perform actual jazz dance routines in class. Jazz dance’s history, movement principles and relationship to music will be presented. The course will enhance appreciation of jazz dance as a part of American culture and as a theatre art. Code 2 course fee.

**DANC 270 Ballet III 3 s.h. (2 + 2)**

Formerly DA 270 – This course is designed to meet the needs of the student who has mastered the initial phase of ballet study and is now physically capable of proceeding to the secondary level of training. Prerequisites: DANC 170, DANC 171 or comparable achievement in outside study (to be evaluated by audition). Code 2 course fee.

**Economics**

**ECON 151 Macroeconomic Principles 3 s.h.**

Formerly SS 151 – A study of the American economic system, including private enterprise, the role of government in the economy, supply and demand, national income measurement and theory and fiscal and monetary policy.

**ECON 152 Microeconomic Principles 3 s.h.**

Formerly SS 152 – An intensive study of supply and demand analysis. Theories and principles of market behavior are examined and applied to economic issues related to production, consumption and distribution. Prerequisites: NONE but ECON 151 strongly recommended.

**ECON 153 Contemporary Economic Issues 3 s.h.**

An examination of major economic issues and problems confronting a contemporary society. Topics will include the factors contributing to poverty, the purposes and effects of antipoverty policies, the impact of race and gender on economic discrimination, unemployment, labor markets, child support, and homelessness. The application of economic principles to these issues and possible alternative solutions will be discussed.

**Education**

- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.
- Students are expected to utilize the analytical reading and writing skills acquired in the College English program. These skills are especially helpful in the completion of EDUC 176, 178, and 245.
- Field experiences and observations are often a part of courses in Education.

**EDUC 176 Foundations of American Education 3 s.h.**

Formerly SS 176 – Students will learn and demonstrate knowledge of five foundations of American education: history; philosophies of education; administration, economics and support of education; the interrelationship of school and society; and organization for learning.

**EDUC 177 School and Community 3 s.h.**

Formerly SS 177 – This course examines current trends and issues in education stressing the dynamics of school and community partnerships. Participants will analyze the various groups and social forces that influence what children are taught in today’s schools. Emphasis will be in today’s schools. Emphasis will be placed on effective utilization of community resources.

The effective utilization of community resources will be highlighted. This course is for students preparing for a career in the public schools or in human services. Topics will include the etiology and nature of physical, sensory, motor, mental and emotional exceptionalities. Legislation concerned with the exceptional individuals, the role of parent organizations, the diagnosis of educational needs, the role of the Child Study Team and prescriptive teaching models will be reviewed. Field surveys of education programs for exceptional children, preschool through secondary will be conducted.

**EDUC 178 Introduction to the Education of Exceptional Students 3 s.h.**

Formerly SS 178 – For students preparing for a career in working with children or in human services. Topics will include the etiology and nature of physical, sensory, motor, mental and emotional exceptionalities, legislation concerned with exceptional individuals, the role of parent organizations, diagnosis of educational needs, the role of the Child Study Team, prescriptive teaching and field survey of educational programs for exceptional children pre-school through secondary school age.

**EDUC 241 Children's Literature 3 s.h.**  
Formerly SS 241 – Children's literature is a course which surveys a broad range of literature for children pre-school through the elementary grades. Picture books, poetry, folk tales, fantasy, realistic fiction and non-fiction will be read, discussed and evaluated. Students will explore the production and marketing of juvenile books; they will compare current trends in illustration and will practice the evaluation of children's books as literature. Story-telling techniques, reading aloud and the use of trade books in the classroom will be emphasized throughout the course.

**EDUC 245 Language Arts in the School Curriculum 3 s.h.**  
Formerly SS 245 – This course is designed for teacher aides who will be working with children in the area of language arts at the direction of a certified teacher. Students will be introduced to a broad overview of the language arts curriculum, preschool through grade 12, emphasis on integrated and differentiated language instruction. The development of practical skills and strategies for conducting enrichment and remedial language arts activities in speaking, writing, reading, and listening will be stressed. Prerequisite: ENGL 151.

**EDUC 279 Curriculum Development in Early Childhood Education 3 s.h.**  
Formerly SS 279 – The objective of the course is to teach the basic principles and concepts of early childhood curriculum that focuses on the needs and interests of children between the ages of 2 and 6. The organization of the course emphasizes the needs, interest and abilities of toddlers. The meaning of various kinds of play and the importance of social skills utilizing culturally valued content are emphasized as well. Ten hours of classroom observation of preschoolers is a requirement of the course. Prerequisites and/or corequisites: Twelve hours in Psychology and Education courses completed or permission of the instructor.

**EDUC 290 Internship in Education 3 s.h.**  
Formerly SS 290 – Students in the last semester of the Teaching Assistant/Child Care Program will work in licensed nursery schools or day care centers. Students will volunteer at least 120 hours at the work site.

## Electronic Media

**COEM 120 Television Production 3 s.h.**  
Basic television production techniques, including the use of camera, switchers, audio board, producing/directing studio programs. Corequisite: COMM 110. Code 2 course fee.

**COEM 220 Portable Video Production 3 s.h.**  
Students will learn to plan, execute and edit videotaped projects for documentary, informational and educational use. Prerequisites and/or corequisites: COMM 110, COMM 114, COEM 120.

**COEM 224 Video Editing and Post Production 3 s.h.**  
This course teaches advanced principles of professional video editing. It combines theory and methodology with practical experience in assembling and shaping a story into a production. Prerequisites and/or corequisites : COMM 144, COEM 220. Code 2 course fee.

**COEM 230 Audio Recording for Electronic Media 3 s.h. (2 + 2)**  
An introduction to the basics of audio recording technology. Students working in the studio environment will develop skills with microphone selection and use, multi-track recorders, recording consoles and digital and analog processors. Prerequisite: COEM 220. Code 2 course fee.

**COEM 231 Audio Production Techniques 3 s.h. (2 + 2)**  
The study and practical application of audio production techniques in a digital multi-track recording environment. Students will develop production skills through a hands on engineering of recording, overdubbing and mix-down sessions. Prerequisite and/or corequisite: COEM 230. Code 2 course fee.

**COEM 232 Advanced Audio Mixing Techniques 3 s.h. (2 + 2)**  
An in depth study of audio mixing and using the studio medium itself as a creative art form. The development of skills necessary to produce master quality mixes for multiple media applications. Prerequisite: COEM 231. Code 2 course fee.

## Engineering

### Civil Engineering Technology

**CVET 123 Surveying I 3 s.h. (2 + 3)**  
Formerly CET 123 – Elementary surveying including measurements, leveling, transit surveys and computations. Practical field problems stressing use of tape, compass, transit and level. Prerequisite: MATH 191. Code 2 course fee.

**CVET 124 Surveying II 3 s.h. (2 + 3)**  
Formerly CET 124 – A continuation of basic surveying including methods of stadia, topographic mapping, earthwork, horizontal and vertical curves, construction and surveys. Practical field problems in stadia, topographic mapping and construction surveys and CAD mapping software from field data. Prerequisite: CVET 123. Code 2 course fee.

**CVET 151 Applied Mechanics 3 s.h.**  
Formerly CET 151 – Introduction to the basic principles of engineering mechanics including fundamentals of force systems and resultants, moments and couples, equilibrium, trusses and frames, centroids and moments of inertia. Prerequisite of MATH 012 or algebra placement of no remediation. Corequisite: ELET 155.

**CVET 152 Mechanics of Materials 4 s.h. (3 + 3)**  
Formerly CET 152 – Analysis of stresses and strains, mechanical properties of engineering materials, introduction to shear and bending moment diagram, stresses and deflections in beams, combined loading. Laboratory includes experimental study of above topics using testing machines and a variety of load deformation measuring devices. Prerequisite: CVET 151. Code 2 course fee.

**CVET 161 Construction Methods and Materials 3 s.h.**  
Formerly CET 161 – A basic course covering materials, equipment and procedures used in the construction industry. Topics include basic construction materials, aggregates, concrete, masonry, wood, metals and manufactured building products.

**CVET 181 Graphics for Civil Technicians I 3 s.h. (2 + 3)**  
Formerly CET 181 – This is a basic course in the fundamentals of construction drawing. The course is presented using a microcomputer based computer-aided drafting (CAD) system. Topics include basic drafting concepts, CAD drawing principles and vocabulary, system management and principles of light frame construction. Code 2 course fee.

**CVET 182 Graphics for Civil Technicians II 3 s.h. (2 + 3)**  
Formerly CET 182 – This course is a continuation of CVET 181. Construction drawings for a small project are developed from design sketches. Topics include production of working drawings, building systems, and structural calculations. CAD drafting system will be used. Prerequisite ENGR 180. Code 2 course fee.

**CVET 231 Design of Structures 4 s.h. (3 + 3)**  
Formerly CET 231 – Shear and bending moment diagram, analysis of static load, stresses, strains and deflections of determinate structural members built up sections. Steel design of basic beams. Columns, connections of structural elements. Detailing of beam, columns, product section, plans and specifications. Prerequisite: CVET 151 and CVET 152. Code 2 course fee.

**CVET 232 Design of Concrete** 4 s.h. (3 + 3)

Formerly CET 232 – Analysis and design of basic reinforced concrete beams, slabs, columns and shear design in beams. Development, splices, and simple-span bar cutoffs. Continuous construction design considerations. Laboratory: physical and mechanical tests of cements, mortar and aggregates, concrete mix design, beam experiments and test reports. Prerequisite: CVET 231. Code 2 course fee.

**CVET 241 Soil Mechanics and Foundations** 4 s.h. (3 + 3)

Formerly CET 241 – Formation of natural soil deposits, engineering properties of soils, soil exploration, stress distribution in soil, consolidation of soil and settlement of structures, shear strength of soil, shallow foundations, pile foundations. The application of this information to the design of shallow and deep (piles) foundations. Lateral earth pressure and soil compaction. Prerequisite: CVET 152. Code 2 course fee.

**CVET 254 Hydrology and Hydraulics** 4 s.h. (3 + 3)

Formerly CET 254 – Topics will explore the hydrologic cycle phenomena of precipitation, surface runoff and stream flow. Groundwater flow and well hydraulics are covered through a study of aquifers, recharge and safe yield. Open and closed channel flow principles through the use of energy and momentum equations to account for head losses and hydraulic jumps are discussed. Laboratory experiments demonstrating laminar and turbulent flow, orifice and weir parameters as means to measure fluid flow will reinforce theory. Prerequisites: PHYS 171, CVET 151. Code 2 course fee.

**CVET 256 Land Development and Site Planning** 3 s.h.

Formerly CET 256 – This course will examine the process of land development. The concepts of land planning, master plan and land use regulation (zoning) will be discussed. Site planning and design topics will include environmental assessment issues of geology and soils, vegetation, hydrology, and climate. Site development issues of earthwork and grading, drainage and erosion, streets and roads, utilities, parking, and building construction will be covered. Prerequisites/Corequisite: CVET 124.

**Construction Management Technology****BCET 101 Interpretation of Plans and Specifications** 3 s.h.

Formerly BCT 101 – A course to familiarize the student with the basic knowledge of how to read and interpret building plans and specifications. The student studies in detail the site plan, floor plans, elevations, sections, detail symbols, notations and abbreviations of a standard set of contract plans. The related specifications for wood, steel and concrete construction and electrical and mechanical systems are covered.

**BCET 124 Project Planning and Control** 3 s.h.

Formerly BCT 124 – Discusses project management policies, life cycle, organizational structures and models. Students will investigate budgeting, scheduling, resource allocation through the utilization of project networking such as PERT and CPM. Monitoring and information procedures are analyzed as fundamental elements for control and maintaining balance in meeting project objectives. Utilization of computer methods is covered to plan and monitor projects. Prerequisites: BCET 134, CVET 161 or field experience. Code 1 course fee.

**BCET 134 Construction Methods and Pricing for Estimating** 3 s.h.

Formerly BCT 134 – A course designed to introduce the student to the task of estimating as applied to a construction project. The estimating of material and labor costs will be studied, as well as intangibles such as taxes, insurance, bonding, overhead and profit. Each student will use PC. driven spread sheets to track the various parts of a class project. The procedures of bidding, opening bids, awarding of contract and related items are covered. Prerequisites: BCET 101 or field experience.

**Computer Systems Engineering Technology****ELET 152 Logic and the Microcomputer** 3 s.h. (2 + 3)

Formerly ET 152 – This course is the second in a sequence of computer courses for electronic technicians. It contains basic concepts of codes, Boolean algebra, Karnaugh maps, computer arithmetic and logic. Various computer components studied include counters, registers, memories, microprocessors, ALU's and bus structure. The student shall develop these principles into a modern computer. Assembly language shall be used in some of the logic design portions of this course. The practical applications shall consist of experiments in combinational logic and programming of microcomputers. Code 2 course fee.

**ELET 155 Introduction to Engineering Technology** 2 s.h.

Formerly ET 155 – This course will examine career skills in engineering technology while teaching basic techniques utilized in technology. Students will gain proficiency in the use of software programs to organize field data, solve formulas, graph data, and report results. Problems will be drawn from practical applications experienced in the field. Prerequisite: MATH 011. Code 2 course fee.

**Engineering Science****ENGR 124 Engineering Analysis** 3 s.h.

Formerly E 124 – Application of the methods of mathematical analysis to the solution of engineering problems using microcomputers. Programs to solve real-life engineering problems will be written using the FORTRAN language. Additional software packages will be investigated for use in problem solving. Corequisite: MATH 266 or permission of instructor. Code 2 course fee.

**ENGR 180 Computer-Aided Graphics: Basic Auto CAD** 2 s.h. (1 + 3)

Formerly E 180 – A basic course in the fundamentals of computer-aided drafting/design (CADD). The course provides the student with an understanding of the concepts, features and limitations of a micro-computer based CAD system. Students will gain hands-on experience using the latest release of "AutoCAD" 2d software, the computer, digitizer and plotter. The majority of the course time consists of laboratory exercises.

**ENGR 181 Graphics for Engineers** 2 s.h. (1 + 3)

Formerly E 181 – This course presents the fundamentals of engineering graphics and includes coverage of elementary projection, lines and planes, auxiliary views, edge views, oblique projection, angle between planes, angle between lines and planes, intersections and revolution. Drawing will stress solution of elementary graphic problems. The drawings will be completed in both the drafting laboratory and using CAD software in the computer laboratory. Code 2 course fee.

**ENGR 191 AutoCAD 2-D Basics I** 3 s.h. (1 + 4)

Formerly E 191 – This is the first part of a basic program in the fundamentals of computer aided drafting/design (CAD). The course provides the student with an understanding of the concepts, features, and limitations of a microcomputer based CAD system. The course shows how to use AutoCAD to set up drawings and add lines, circles, arcs, other shapes, geometric constructions and text. Code 2 course fee.

**ENGR 192 AutoCAD 2-D Basics II** 3 s.h. (1 + 4)

Formerly E 192 – This is the second part of a basic program in the fundamentals of computer aided drafting/design (CAD). The course continues from the prerequisite course with diminishing, blocks, attributes, section views, and an introduction to three-dimensional drawing. The course shows how to use AutoCAD to draw and edit polylines; set layers, linetypes and create colors; create section lines and graphic patterns. Prerequisite: ENGR 191. Code 2 course fee.

**ENGR 193 AutoCAD 3-D Basic 3 s.h. (1 + 4)**  
Formerly E 193 – This is the third part of a basic program in the fundamentals of computer aided drafting/design (CAD). The course explores the three dimensional viewing and construction capabilities of AutoCAD. Topics covered include a review of point coordinate entry; X, Y, and Z filters; spherical and cylindrical coordinate entry; 3-D viewing techniques; 3-D geometry construction; surface meshes; regions and solid modeling. Prerequisite: ENGR 192. Code 2 course fee.

**ENGR 194 AutoCAD Customization 3 s.h. (1 + 4)**  
Formerly E 194 – This is the final part of a basic program in the fundamentals of computer aided drafting/design (CAD). The course covers the techniques for customizing AutoCAD user environment and the AutoCAD menu system. Some of the course topics include creating and modifying toolbars, screen menus, toolbar buttons and flyouts. Other topics include creating macros for automating repetitive tasks and managing symbol libraries. This course also introduces AutoLISP and Dialog Control Language (DCL). Prerequisite: ENGR 193. Code 2 course fee.

**ENGR 196 AutoDesk Map (GIS) 3 s.h. (1 + 4)**  
This is a comprehensive introduction to the GIS features of AutoDesk Map. The student will learn to utilize the analytical capabilities of GIS through Overlay Analysis, Topical Queries, Edge Matching, and attaching external databases. Specific applications will be in the disciplines of civil engineering, environmental studies, facilities management and architectural restoration. Prerequisite: ENGR 193. Code 2 course fee.

**ENGR 198 AutoDesk Inventor 3 s.h. (1 + 4)**  
This course will introduce the aspects of Solid Modeling and Parametric Modeling, using AutoDesk Inventor. The student starts with constructing basic shapes to building intelligent solid models, creating multi-view drawings and assembly models. Prerequisites: ENGR 193. Code 2 course fee.

**ENGR 221 Engineering Statics 3 s.h.**  
Formerly E 221 – A quantitative study of forces that act on engineering structures in equilibrium. Force system classification, resultant forces and conditions for equilibrium of rigid bodies in two and three dimensions are covered. Mathematical principles of vectors and calculus are applied to trusses, frames, and simple machines. Centroids (center of mass) are developed and used in the analysis of stresses on beams. Special engineering topics discussed will include dry friction with an introduction to virtual work. The concept of moment of inertia included in discussion will establish the link between statics and solid mechanics. Prerequisites: MATH 266, PHYS 271.

**ENGR 222 Engineering Dynamics 3 s.h.**  
Formerly E 222 – A study of the motion of bodies without reference to the forces which cause the motion and the action of forces on acting the bodies to their resulting motions. Rectilinear and curvilinear motion in two and three dimensions using rectangular, normal/tangential and polar coordinate system are investigated in kinematics. Kinetics includes discussions on work, potential and kinetic energy. Pulse and momentum are analyzed from a special treatment of Newton's second law along with the concept of conservation of energy and momentum. Prerequisite: MATH 266, PHYS 271.

**ENGR 251 Electrical Engineering I 4 s.h. (3 + 3)**  
Formerly E 251 – Circuits are studied using the analytical tools of the engineer. The required theorems and techniques are derived first using resistive circuits, and then applied to RC, RL, and RLC networks. Transient analysis of these networks is then studied, followed by sinusoidal steady-state analysis, and sinusoidal power calculations. Laboratory work is correlated with the lectures. Prerequisites: MATH 266, PHYS 272. Code 2 course fee.

**ENGR 252 Electrical Engineering II 4 s.h. (3 + 3)**  
Formerly E 252 – A continuation of ENGR 251 beginning with mutual inductance, and series and parallel resonance. The Laplace transform is introduced, and its use in circuit analysis is thoroughly studied. Other topics include: Fourier series and the Fourier transform, two-port networks, and transfer functions. Laboratory work is correlated with the lectures. Prerequisite: ENGR 251. Corequisite: MATH 280. Code 2 course fee.

### **English**

High school transcripts are required for appropriate placement in mathematics and language courses.

**ENGL 001 ESL-Intermediate Conversational English 3 n.c. (2 + 1)**  
Formerly ENG 001 – This course is designed for nonnative speakers of English identified as needing English language instruction at the intermediate level. Instruction will focus on the conversational skills needed for effective verbal communication. This course cannot be used to satisfy degree requirements.

**ENGL 004 ESL-Intermediate Listening and Speaking 3 n.c. (2 + 1)**  
Formerly ENG 004 – This course is designed for nonnative speakers of English identified as needing English language instruction at the intermediate level. Instruction will focus on the development of accuracy in the production of spoken English: stress, intonation, and rhythm; as well as the development of listening skills needed to undertake academic work and to understand colloquial speech. The foreign language lab will be utilized to enhance the accuracy of these skills. Corequisites: ENGL 005, ENGL 006.

**ENGL 005 ESL-Intermediate Grammar 3 n.c. (3 + 0)**  
Formerly ENG 005 – This course is designed for nonnative speakers of English identified as needing English language instruction at the intermediate level. Using a communicative approach, this course will provide practice, development and internalization of the fundamental structures of English grammar needed for effective spoken and written communication. Corequisites: ENGL 004, ENGL 006.

**ENGL 006 ESL-Intermediate Reading and Writing 3 n.c. (2 + 1)**  
Formerly ENG 006 – This course is designed for nonnative speakers of English identified as needing English language instruction at the intermediate level. Work will focus on the improvement of skills and vocabulary needed to read with greater speed and comprehension, and to generate written responses to readings of intermediate difficulty. The function and structural elements of a paragraph will be carefully analyzed. Corequisites: ENGL 004, ENGL 005.

**ENGL 007 ESL-Advanced Grammar 3 n.c. (2 + 1)**  
Formerly ENG 007 – This course is designed for nonnative speakers of English identified as needing English language instruction at the advanced level. This course will provide an intensive study of English grammar and usage and the mechanics of punctuation, capitalization and spelling. Particular attention will be paid to the most common grammatical problem areas generated by ESL learners when writing compositions. Corequisite: ENGL 008. Code 2 course fee.

**ENGL 008 ESL-Advanced Reading and Writing 3 n.c. (2 + 1)**  
Formerly ENG 008 – This course is designed for nonnative speakers of English identified as needing English language instruction at the advanced level. Work will focus on the skills and vocabulary needed to read college level texts and to generate written responses which demonstrate a basic mastery of grammar and paragraph formation. Corequisite: ENGL 007.

**ENGL 010 Fundamentals of Reading and Study I 3 s.h.**  
Formerly ENG 010 – This course is designed to enable students to improve fundamental skills essential to a meaningful college experience. It is required for students identified on the N. J. College Basic Skills Placement Test as needing development in reading. The course will be integrated with opportunities to improve comprehension, vocabulary and rate. Instruction will be provided for efficient use of textbooks, note-taking, organization, planning and related study skills. This course cannot be used to satisfy degree requirements.

**ENGL 011 Fundamentals of Reading and Study II** 2 s.h.

Formerly ENG 011 – This course is designed for two groups of students (1) Students for whom a reading course is recommended on the basis of test results (NJBST) which indicate a level of attainment greater than the level dealt with in ENGL-010 and (2) Students who make gain in ENGL-010, yet nevertheless demonstrate a need for further development of reading skills. This course cannot be used to satisfy degree requirements.

**ENGL 020 English Fundamentals I** 3 s.h.

Formerly ENG 020 – This course is required for students identified on the N. J. College Basic Skills Placement Test as needing development in writing skills. Students will receive developmental English instruction in the expressive skills of writing and speaking and the receptive skills of listening and reading. Classroom instruction and additional writing laboratory sessions will stress English fundamentals. This course cannot be used to satisfy degree requirements.

**ENGL 021 English Fundamentals II** 4 s.h. (3 + 1)

Formerly ENG 021 – English Fundamentals II is required for students identified on the New Jersey Basic Skills Placement Test as needing development in writing skills. The focus is on paragraph and short essay writing, with intensive study and practice in idiom, sentence structure, grammar, punctuation, and style. Students will learn to use the computer to compose and edit writing assignments and to use electronic sources. This course cannot be used to satisfy degree requirements. Code 2 course fee. Prerequisite: ENGL 020 with a grade of "C" or higher.

**ENGL 141 Writing the Research Paper** 1 s.h.

Formerly ENG 041 – In this five week course, students will learn techniques of research, criteria for selecting and interpreting information, methods of organization and conventions of documentation and will apply these skills to the completion of a research paper. May not be taken prior to ENGL 151. (Recommended A.A., A.S. or transfer students.)

**ENGL 142 Grammar and Communication** 3 s.h.

Formerly ENG 142 – This course will provide intensive study of English grammar, usage and mechanics of punctuation, capitalization and spelling. Emphasis will be directed to practical application of traditional grammar rules in business and technical communications. The course will also provide a foundation for more efficient study of foreign language and offer assistance to students for whom English is a second language. This course may not be substituted for English courses required for OCC degree. Prerequisite: Successful completion of ENGL 021 or ENGL 151 placement.

**ENGL 151 English I** 3 s.h.

Formerly ENG 151 – ENGL 151 develops students' skills in expository writing through instruction and practice (totaling 3500 words, minimum) in the organization and development process of the essay form, including research writing. Prerequisite: placement test score/or successful completion of required developmental courses with a grade of "C" or higher.

**ENGL 151 English I Honors** 3 s.h.

Formerly ENG 152 – This course introduces students to the study of fiction, poetry and drama, and requires written assignments (totaling 3500 words, minimum) which continue the practice of writing skills developed in ENGL 151, including research writing. With ENGL 151, this course fulfills the 6-credit graduation requirement in English Communication. Prerequisite: ENGL 151.

**ENGL 152 English II Honors** 3 s.h.

Formerly ENG 153 – This course provides opportunities for students to write creatively in several genres: personal essay, short stories, poems, and one-act plays. It is flexibly organized to permit emphasis on the area of major interest to the individual writer. Student work is evaluated by the instructor and other members of the class. Prerequisite: ENGL 151 or equivalent.

**ENGL 155 Communicating Contemporary Issues** 3 s.h.

Formerly ENG 155 – In this course, students will formulate and communicate their responses to contemporary American issues depicted in literature. Responses will include discussion, small group colloquia, oral presentations using computer-assisted modes, essays, researched reports, letters, and other modes of personal communication. Instruction will emphasize both contemporary social themes, discovered through intensive reading and discussion of literature, and techniques of response. Prerequisite: ENGL 151.

**ENGL 200 Understanding Film** 3 s.h. (2+2)

Formerly ENG 200 – Understanding Film offers students the opportunity to view and study a variety of motion pictures that exemplify this twentieth-century genre. Before each weekly viewing, a lecture will introduce the technical and historical relevance of that week's film; students will then analyze and respond to the screening both in writing and in small group discussions. Course units include studying cinematic elements (such as camera movement, lighting, editing and sound), analyzing character portrayal and development, and exploring film's realistic and expressionistic traditions. Screenings will include such familiar movies as Francis Ford Coppola's *The Godfather*, such innovative films as Bernardo Bertolucci's *The Conformist*, and such classic motion pictures as Alfred Hitchcock's *Psycho*. Prerequisite: ENGL 151 or permission of the instructor.

**ENGL 202 From Literature to Film** 3 s.h.

Formerly ENG 202 – The course examines the adaptation of literature to film. Students read the original works of fiction, view the film versions, and write their own short screenplays adapted from the readings. The process of adaptation is emphasized by analyzing the elements of both fiction and cinema. Students also have the option of making a short film from their screenplays. Prerequisite: ENGL 152.

**ENGL 222 Native American Literature** 3 s.h.

Formerly ENG 222 – This course traces the evolution of Native American writing from its origins in the oral tradition to its varied expression in modern fiction, poetry, and non-fiction. The course will examine the ways in which world view, cosmology, myth and symbol are interwoven to create the rich fabric of Native American storytelling. The writings will be studied in their cultural context as well as for the elements of content, style and meaning. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 223 African American Literature** 3 s.h.

Formerly ENG 223 – The course includes short stories, slave narratives, poetry, drama, the novel, beginning with writings from the 1700s to the 1900s, exploring the struggles, dreams, artistry, wit, conceptions, and perceptions of authors and of voices too long silenced. Prerequisite: ENGL 151.

**ENGL 224 Studies in Non-Western Literature** 3 s.h.

Formerly ENG 224 – Students will have the opportunity in this course to read and discuss representative writers from non-western nations in the Middle East, Africa, India, and Asia. The writings will be studied as literature and as representative of the culture. This course will be team taught in discrete instructional modules. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 225 Chinese Literature in Translation** 3 s.h.

An introduction to the major genres and themes of Chinese literature from approximately 720 BC to the Twentieth-century. Students will gain insights into the Chinese culture and society through the English translation of selected samples of poetry, short stories, novels, essays and drama. Prerequisites: ENGL 151.

**ENGL 235 Myth and Meanings in Literature I 3 s.h.**

Formerly ENG 235 – Using six televised/vid-eotaped lectures by Joseph Campbell and a variety of reading assignments, this course focuses on the way myths and symbols organize the world of human action, history, and culture to provide a totality of meaning. The relationship between myth and selected works of world literature, ancient and modern, will be explored. Prerequisite: ENGL 151. Code 2 course fee (applies to Home Study only).

**ENGL 236 Myth and Meanings in Literature II 3 s.h.**

Formerly ENG 236 – Myth and Meanings II explores the ways that myth and symbol have shaped Western culture. Like Myth and Meanings I, the course combines the videotaped Joseph Campbell lectures with a variety of reading and writing assignments. Specific units include the relationship between myth and metaphor, the Greek mystery religions, the evolution of Christianity, the Arthurian myth cycle, the concepts of eros and romantic love, and the search for the Holy Grail. Code 2 course fee (applies to Home Study only). Prerequisite: ENGL 151 or permission of the instructor. (Myth and Meanings I is not a pre-requisite.)

**ENGL 240 Women in Literature 3 s.h.**

Formerly ENG 240 – A study of the development of women's literary history from the Middle Ages to the present with an emphasis on the works of the Nineteenth, Twentieth and Twentyfirst centuries. This course examines the variety of literature that English-speaking women have produced between the Fourteenth century and the present, paying special attention to the evolution of the female literary tradition and the changing definitions of the women writer. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 242 Women in Film 3 s.h.**

Formerly ENG 242 – This course studies gender concerns in the art of cinema. It focuses on female images, icons, cultural change and role definition, what has been lost and found at the movies, and the various contributions of women to films and filmmaking. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 244 Women's Lives 3 s.h.**

Formerly ENG 244 – This course will examine the genre of biography as it is used to tell of literary women's lives, to revise "history" to make it "her story", too. Biographies of women writers will be read and discussed in terms of the literary genre, gender issues, and the social context. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 246 Women Writers of Color 3 s.h.**

Formerly ENG 246 – This course focuses on the lives and works of North American women writers of color with an emphasis on the Twentieth century authors. The general objectives of the course are to better understand the works of each of the authors and also to examine the larger social context in which women of color have found their voices in the literature of North America. This course satisfies the diversity requirement for the A.A. Liberal Arts degree. Prerequisite: ENGL 151.

**ENGL 251 American Literature I 3 s.h.**

Formerly ENG 251 – A study of literary works and their backgrounds from the beginning of American literature to approximately 1865. Students will read, read discuss and write about significant works. Prerequisite: ENGL 151 or consent of instructor.

**ENGL 252 American Literature II 3 s.h.**

Formerly ENG 252 – A study of American literary works and their backgrounds from approximately 1865 to 1950. Students will read, discuss and write about significant works. Prerequisite: ENGL 151 or consent of instructor.

**ENGL 254 Modern British Writers 3 s.h.**

Formerly ENG 254 – Reading and discussion of major writers representing the major periods of British literature in the 20<sup>th</sup> century. Prerequisite: ENGL 151.

**ENGL 255 World Literature I 3 s.h.**

Formerly ENG 255 – Reading and discussion of some of the great works of world literature, specifically those not likely to be covered in courses on American, British and contemporary literature. ENGL 255 considers literature of the ancient, medieval, and Renaissance periods. Prerequisite: ENGL 151.

**ENGL 256 World Literature II 3 s.h.**

Formerly ENG 256 – A study of some of the world's great authors (by non-English writers), from the neoclassicism of the seventeenth century to works of the twentieth century. An emphasis is placed on a diversity of ideas, nations and genres. Prerequisite: ENGL 151.

**ENGL 257 The Short Story 3 s.h.**

Formerly ENG 257 – A study of the short story, its development and techniques, with emphasis on works by modern writers. Prerequisite: ENGL 151.

**ENGL 258 The Short Novel 3 s.h.**

Formerly ENG 258 – Students will read, discuss and write about novels representative of twentieth-century techniques and attitudes. These novels will be analyzed according to varying attitudes of modern literary evaluation. The basic elements of the novel, the structure of the novel and literary craftsmanship will be considered in relation to the authors' perceptions of human experience, reactions to modern society and statements of value. Prerequisite: ENGL 151.

**ENGL 259 Advanced Creative Writing 3 s.h.**

Formerly ENG 259 – This course provides the opportunity for students to continue work in the creative writing genres - personal essay, poetry, and short fiction - begun in ENGL 153. Flexible organization and group criticism as well as searching for outside vehicles for recognition and/or publication of student work will contribute to the course's instructional format. Prerequisites: ENGL 151 or equivalent; ENGL 153 or permission of the Department.

**ENGL 260 The Shakespeare Plays I 3 s.h.**

Formerly ENG 260 – This course examines representative plays from Shakespeare's comedies, histories, tragedies, and later romances. Students will read selected plays and will view videocassettes of the plays in performance. Literary, cultural, and performance considerations of the plays will be examined. Students may repeat the course once for credit as ENGL 261 when new plays are offered. Prerequisite: ENGL 151 or consent of the instructor.

**ENGL 261 The Shakespeare Plays II 3 s.h.**

Formerly ENG 261 – A continuation of ENGL 260 with additional plays in the television series being viewed and studied. Prerequisite: ENGL 151.

**ENGL 270 The Works of F. Scott Fitzgerald 3 s.h.**

Formerly ENG 270 – This course explores the artistic and social milieu of the United States in the roaring Twenties and the depressed Thirties through the writings of F. Scott Fitzgerald. Videocassettes and reading assignments provide a broad range of experiences with the life and literature of the two decades. Home study course. Prerequisite: ENGL 151. Code 2 course fee.

**ENGL 274 The World of Ernest Hemingway 3 s.h.**

Formerly ENG 274 – A study of the short fiction and major novels of Ernest Hemingway, beginning in Paris in the 1920's as a spokesman for the lost generation, continuing through his next four decades of artistic growth, and focusing on his major contributions to twentieth-century narrative style. Prerequisite: ENGL 151.

**ENGL 276 The World of D. H. Lawrence 3 s.h.**

Formerly ENG 276 – This course will examine the life and work of D. H. Lawrence, one of this century's most controversial writers. The heart of the course will concentrate on his major works: his principal novels, short stories, poems and essays. Prerequisite: ENGL 151.

**ENGL 280 American Poets: Voices and Visions 3 s.h.**

Formerly ENG 280 – Based on the recent PBS television series, this course offers students the opportunity to study the distinctive voices and visions of eight American poets from Walt Whitman through Robert Frost to Sylvia Plath. Prerequisites: ENGL 151. Home study course. Code 2 course fee.

## **Environmental Science**

### **ENVI 152 Environmental Science 4 s.h. (3+2)**

Formerly SC 152 – An introduction to current environmental problems and the processes used to analyze them from perspectives of the biological, geological, and social sciences. Field and laboratory experiences incorporated into the course. Prerequisites: high school biology and chemistry. Code 3 course fee.

### **ENVI 155 Environmental Problems 3 s.h.**

Formerly SC 155 – This course is an in-depth review of issues of environmental concern as they relate to solid waste disposal, wetlands, soil utilization, water pollution, zoning, agricultural and industrial wastes, and the role of local and county officials. Included will be trips to sewage treatment plants, solid waste disposal sites, water facilities. Prerequisite: CHEM 182

### **ENVI 157 Environmental/ Natural Resource Conservation 3 s.h.**

Formerly SC 157 – This course provides in-depth coverage on the importance of the natural environment and how to protect its many resources for future generations. Outlines many of the national and international environmental problems association with resource management and conservation, and reviews legislative, technological and methodological solutions to these problems. Prerequisite: ENVI 152.

### **ENVI 251 Water/Wastewater Treatment 4 s.h. (3 + 2)**

Formerly SC 251 – This course provides the necessary knowledge and techniques to operate both water treatment filtration facilities and those without filtration capacity. It also provides fundamental knowledge and techniques employed in most primary and secondary wastewater treatment facilities. It will include the operation of settling tanks, activated sludge, sand filters, trickling filters, and general laboratory techniques used in wastewater treatment. Prerequisites: ENVI 152, CHEM 182. Code 2 course fee.

### **ENVI 252 Hazardous Wastes Technology 4 s.h. (3 + 2)**

Formerly SC 252 – This course provides the necessary knowledge relative to federal and state regulations pertaining to hazardous waste classification, record keeping and training requirements. Includes health and safety topics, functions and selection of personal protective equipment and sampling protocols. Relevant topics in chemistry are reviewed. Prerequisites: ENVI 152, CHEM 182. Code 2 course fee.

### **ENVI 253 Air Quality Technology 4 s.h. (3 + 2)**

Formerly SC 253 – A quantitative and qualitative evaluation of the atmospheric environment. Fundamentals of air pollution, measurement and control, legal enforcement, major sources of atmospheric emissions, air quality monitoring and sampling systems. Also included are operation and calibration of air monitoring instruments, and physical and chemical analyses of particulate and gaseous samples. Prerequisites: ENVI 152, CHEM 182. Code 2 course fee.

### **ENVI 257 Seminar/Current Issue 1 s.h.**

Formerly SC 257 – This is a capstone course in environmental science with presentations describing original research in the field, conducted by students, faculty and invited speakers. Sessions maybe used to debate controversial issues, films or other published materials. Prerequisite: 49 s.h. in environmental science degree program.

### **ENVI 259 Field Experience/ Practicum 2-3 s.h.**

Formerly SC 259 – Required of all environmental science majors. This course is intended to provide an off-campus work-study experience that is planned and conducted under the supervision of an environmental science faculty member. Arrangements must be made well in advance before the course is to be taken. Prerequisite: At least 35 s.h. in environmental science degree program.

## **Fire Science**

- Fire Science courses conform to the regulations established by the State of New Jersey and may be applied toward certification as a Certified Fire Inspector/Fire Official.
- Graduates of the Ocean County Fire Academy and students with field experience in firefighting may receive credit for prior learning and/or experience with the approval of the Fire Science Coordinator.

### **FIRE 151 Principles of Fire Protection 3 s.h.**

Formerly FS 151 – The student will describe, analyze and evaluate basic principles in the field of fire protection. Topics include fire behavior, codes and standards, safety, building design and construction, extinguishing agents and systems, alarm and detection devices and fire department organization and administration.

### **FIRE 152 Fire Service Construction Principles 3 s.h.**

Formerly FS 152 – The student will gain a knowledge of construction principles of basic concern to the fire service. Various types of construction (wood, ordinary, mill, concrete, steel) building design criteria and material behavior will be related to expected outcomes in fire service operations. Prerequisite: FIRE 151 or permission of instructor.

### **FIRE 153 Fire Department Organization and Management 3 s.h.**

Formerly FS 153 – The student will describe, analyze and evaluate basic management concepts as they apply to the structure and processes of the modern fire service organization. Emphasis will be placed upon fire service organizational structure, processes and behaviors, records, management information systems, communications, leadership, public relations and the planning, organizing, directing, coordinating and controlling functions. Prerequisite or corequisite: FIRE 151.

### **FIRE 154 Fire Fighting Tactics and Strategy 3 s.h.**

Formerly FS 154 – The student will describe, analyze and evaluate fire fighting strategy and tactics. Topics to be covered include the action plan, control and coordination, company control considerations and systems planning. Prerequisite: FIRE 151 or permission of instructor.

### **FIRE 155 Hazardous Materials Incident Analysis 3 s.h.**

Formerly FS 155 – The student will receive a basic foundation in the fundamentals of hazardous materials incident analysis as it relates to fire service operations. Students will be taught to recognize and to evaluate the hazard potential of commonly used flammable, explosive and toxic hazardous materials and to apply their knowledge of catastrophic situation adjustment to fire fighting operations commonly used to hazardous materials incidents. Prerequisite: CHEM 180 or one year of high school chemistry.

### **FIRE 251 Fire Service Hydraulics 3 s.h.**

Formerly FS 251 – The student will describe, evaluate and apply the basic principles of fire service hydraulics. Topics presented include fire pumps, velocity distribution systems, fire streams, friction loss, insulated devices, alarm systems and automatic sprinkler operations. Prerequisite: MATH 165 or MATH 191.

### **FIRE 254 Elements of Arson Investigation 3 s.h.**

Formerly FS 254 – The student will conduct a comprehensive examination of the field of arson investigation and evaluate its implications for the fire service. Topics include combustion processes, fuels and accelerants, pyrolysis, investigation procedures and the legal aspects of arson.

### **FIRE 255 Fire Prevention and Inspection I 3 s.h.**

Formerly FS 255 – The student will analyze, evaluate and apply methodology utilized in the field of fire prevention and inspection. Topics included are inspection procedures, common and special fire hazards, occupancy problems and life safety requirements. Students completing this course, which is recognized by the N.J. Bureau of Fire Safety, may obtain licensure as a Fire Official/Inspector. Prerequisite FIRE 151.

**FIRE 256 Fire Prevention and Inspection II** 3 s.h.

Formerly FS 256 – The student will identify, analyze, evaluate and apply concepts utilized in the administration and enforcement of fire codes and related laws and ordinances. Students completing this course, which is recognized by the N.J. Bureau of Fire Safety, may obtain licensure as a Fire Official. Prerequisites: FIRE 151 and FIRE 255.

**FIRE 257 Administration for Fire Officials** 3 s.h.

The New Jersey Department of Community Affairs (NJAC 5:18-7.72) requires this course for all fire officials to be certified. The course is a continuation of the Fire Science curriculum, and will prepare the student to be competent in the administrative portion of the Uniform Fire Code. The student will be able to manage a fire prevention and inspection unit. The student will be able to apply modern management principles and concepts required for managing a fire prevention unit.

**Flight****FLTE 101 Introduction to Flight** 5 s.h. (3 + 4)

This course is designed to provide students with the basic principles of flight, air traffic control, navigational procedures and regulation. Also, provides basic knowledge pertaining to visual flight in the national airspace system, principles of navigational equipment, communications, safety of flight, aeronautical charts and other publications. Upon completion of the course the students will have acquired sufficient knowledge to pass the FAA Private Pilot written exam and the Proficiency to pass the FAA Private Pilot Practical Flight Test. Code 3 course fee.

**FLTE 102 Instrument Flight** 5 s.h. (3 + 4)

This course provides coverage about the principles of instrument flight, including more in-depth review of navigational and communications equipment, charts, approach plates and safety of flight. Upon completion of the course, students will have acquired sufficient knowledge to pass the FAA Instrument exam and proficiency to pass the FAA Practical Flight Test. Prerequisite: FLTE 101. Code 3 course fee.

**FLTE 103 Commercial Flight I** 3 s.h. (2 + 2)

This course will permit the student to improve their efficiency and accumulate the flight hours required for the commercial rating. Upon completion students will have acquired sufficient knowledge to pass the FAA Commercial written exam. Prerequisite: FLTE 102. Code 3 course fee.

**FLTE 104 Commercial Flight II** 3 s.h. (2 + 2)

This course will provide students with hands-on experience at the controls of a complex aircraft. Upon completion of this course students will meet the flight hour requirement, have mastered the complex aircraft and be able to satisfactorily perform the required maneuvers to FAA test standards and pass the FAA Commercial Practical Flight test. Prerequisite: FLTE 103. Code 3 course fee.

**French**

Students who have had four years of French in high school should enroll in FREN 291: Intermediate French I.

Students who have had three years of French in high school should enroll in FREN 192: Elementary French II.

Students who have had two years or less, or no previous classes in French should enroll in FREN 191: Elementary French I.

**FREN 191 Elementary French I** 3 s.h.

Formerly FR 191 – This course is designed for the beginner who has had no previous study of French or students who feel that because of their background or past experience, they would profit from beginning their study of French at the elementary level. No prerequisites.

**FREN 192 Elementary French II** 3 s.h.

Formerly FR 192 – A continuation of FREN 191, stressing the use of conversational dialogues, a comprehensive study of grammar, and readings of French literature chosen to increase the student's ability to read French. Prerequisite: FREN 191 or equivalent or consent of the instructor.

**FREN 291 Intermediate French I** 3 s.h.

Formerly FR 291 – This is an intermediate course designed to further the four basic skills of speaking, reading, writing, and listening begun in FREN 191 and FREN 192. This course is designed for the student who has successfully completed at least one year of college French (FREN 191 and FREN 192) or two years of secondary French or the equivalent. Prerequisite: FREN 192 or satisfactory score on language placement test.

**FREN 292 Intermediate French II** 3 s.h.

Formerly FR 292 – A continuation of FREN 291, and the advancement of the student's ability to read fluently from French literature and express him/herself clearly and concisely in both oral and written situations. Prerequisite: FREN 291.

**Geography****GEOG 161 World Physical Geography** 3 s.h.

Formerly SS 161 – Students will gain an understanding of the physical processes which shape the earth's geographic landscape. Physical elements of the earth's systems to be studied include seasons, weather, climate, plant and animal distribution, and landforms and their formation. Effects of human activities on the environment will be stressed. This course satisfies the Liberal Arts diversity requirement.

**GEOG 162 Human Geography** 3 s.h.

Formerly SS 162 – Students will study the relationships between society and space, and the effects of these relationships on the surface of the earth. The goal is for the student to leave the classroom at the end of the semester with some understanding of why in the world things are where they are. This course satisfies the Liberal Arts diversity requirement.

**German**

Students who have had four years of German in high school should enroll in GRMN 291: Intermediate German I.

Students who have had three years of German in high school should enroll in GRMN 192: Elementary German II.

Students who have had two years or less, or no previous classes in German should enroll in GRMN 191: Elementary German I.

**GRMN 191 Elementary German I** 3 s.h.

Formerly GER 191 – This course is designed for the student without any previous knowledge of the language and for those wishing to refresh and further develop the four basic skills of speaking, listening, reading, and writing. Progressing from simple vocabulary and sentence structure, the student is encouraged to speak the language in simple conversational patterns. An introduction to German customs, including food and beverages, culture and civilization is a fringe benefit of the course. Prerequisite: Curiosity and good will.

**GRMN 192 Elementary German II** 3 s.h.

Formerly GER 192 – This course is a continuation of oral practice combined with reading of interesting and thought-provoking texts. Additional exposure to the four language skills of speaking, listening, reading, and writing will contribute to the student's overall confidence in handling a foreign language. Further exposure to German customs, culture, and civilization is part of the course. Prerequisite: GRMN 191, or appropriate high school or life experience, or consent of the instructor.

**GRMN 291  
Intermediate German I 3 s.h.**  
Formerly GER 291 – The conversational approach to language learning is emphasized and coupled with the development of advanced language skills of speaking, listening, reading, and writing. The student is carefully guided through a structured review of elementary language skills achieved by means of explanation, conversation and group discussion based on current events and texts dealing with politics, sports, history, and literature. Selected texts and musical samples will enable the student to appreciate the time and life of Bach, Beethoven, Goethe and other features of German art and culture. Prerequisite: GRMN 192, or appropriate high school or life experience, or consent of the instructor.

**GRMN 292  
Intermediate German II 3 s.h.**  
Formerly GER 292 – Continuation of a carefully guided and structured review of language skills acquired earlier with an emphasis on oral practice and written exercises. Material of increasing difficulty and covering areas of special interest will be used to fine-tune and refine advanced language skills. Prerequisite: GRMN 291, or appropriate high school or life experience, or consent of the instructor.

### **Gerontology**

See Human Services, page 88.

### **Graphic Design**

**COCG 160 Introduction to Macintosh/Painter 2 s.h. (1+3)**  
An introductory course which will familiarize students with basic MAC operations. This course also provides students with the fundamentals of Paintbox, photo retouching and image manipulation on the computer. No computer graphics experience is needed. Code 2 course fee.

**COCG 161 Painter/Paintbox Applications 2 s.h. (1+3)**  
This course is designed to explore the intricacies of, and to develop an expertise in the Painter program. The student will develop advanced computer graphic techniques for use in illustration, advertising, photo manipulation, animation and T.V. graphics. Prerequisite: COCG 160 or MAC proficiency, ARTS 183, ARTS 184. Code 2 course fee.

**COCG 162 Quark 3 s.h. (1+4)**  
Fundamentals of layout and typography will be addressed through the use of QuarkXPress. The history of type, type as a design element and layout fundamentals will be emphasized. Non-Art majors should consult with the Fine Arts coordinator. Code 2 course fee. See relevant section for additional costs. Prerequisite: COCG 160 or MAC proficiency.

**COCG 163 Photoshop 3 s.h.(1+4)**  
Photographic manipulation and applied illustrative techniques for the photographer/illustrator/designer will be explored in this course. The course stresses the compositional and aesthetic aspects of the photographer/artist through the use of electronic manipulation in the production of the artistic product. Prerequisites: COCG 160, COPH 191. Code 2 course fee. ARTS 184 recommended. See relevant section for additional costs.

**COCG 164 Adobe Illustrator 3 s.h. (1 + 4)**  
An industry-level course to familiarize students with Adobe Illustrator, a PostScript drawing program used to generate and edit illustrations in various digital formats. Prerequisite: COCG 160 or MAC proficiency and COCG 161. Code 2 course fee. See relevant section for additional costs.

**COCG 165 Graphics Portfolio 3 s.h.(1+4)**  
Formerly COCG 165 – A course utilizing specific assignments from Quark, Photoshop and Adobe Illustrator to create a complete presentation package for a potential client. The student will be responsible for the development of a project from initial client interview through roughs, comps, mechanicals and dummies. Assignments identified in previous classes will be incorporated into this class so the student will develop a sense of continuity and will become familiar with all the ramifications inherent to production graphics. Prerequisites: COCG 162, COCG 163, COCG 164. Code 2 course fee. See relevant section for additional costs.

### **Health and Human Performance**

**HEHP 100 Aerobic Conditioning 1 s.h. (0 + 2)**  
An aerobic conditioning program that utilizes jogging, power walking, stationery, steppers, elliptical, treadmills, rhythmic exercise and calisthenics. Code 1 course fee.

**HEHP 101 Weight Training and Body Building 1 s.h. (0 + 2)**  
This course is designed for students whose primary interest is learning the principles of strength and body shaping. Code 1 course fee.

**HEHP 102 Volleyball 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Code 1 course fee.

**HEHP 103 Track and Field 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 104 Badminton 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 105 Soccer 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 106 Basketball 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 107 Softball 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 108 Golf 1 s.h. (0 + 2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Course 1 course fee.

**HEHP 109 Tennis 1 s.h. (0+2)**  
A study of the fundamental rules and etiquette of play, including the progression from simple to complex skills. Code 1 course fee.

**HEHP 110 Applied Modern Health 2 s.h. (1 + 2)**  
Formerly HPE 110 – A critical scientific study of efficient movement based on experimental evidence and the application of physiological and physical laws. The relationship between health and the functional capacity of the cardio-respiratory, digestive and neuromuscular systems is emphasized. Laboratory work will include evaluation of each student's motor ability and personal fitness needs. Will fulfill General Education Requirements. Code 2 course fee.

**HEHP 150 Swimming I 1 s.h. (0 + 2)**  
Formerly PE 150 – For the student who has no knowledge of swimming techniques. Designed to assist in overcoming the fear of water. An elective course designed to orient the student to the water and instruct in propulsion across and through the water. Instruction in elementary forms of rescue, flotation and buoyancy, body position, artificial respiration, pool orientation and safety, ocean swimming (tides, currents), lake and river swimming (polluted water, submerged objects, currents), care of eyes, ears and skin, diving and simple games. Code 1 course fee.

**HEHP 151 Swimming II 1 s.h. (0 + 2)**  
Formerly PE 151 – For the student who can swim at least twenty-five yards comfortably in deep water. An elective course designed to instruct the student in the four basic strokes: elementary backstroke, sidestroke, breaststroke and American crawl. Included is instruction in elementary forms of rescue, body position, artificial respiration, pool orientation and safety, care of eyes, ears and skin, diving and simple games. Code 1 course fee.

## health and human performance

### **HEHP 152 Lifesaving 2 s.h. (1 + 2)**

Formerly PE 152 – Designed to develop skill in personal safety as well as rescue procedures, with achievement of the following: 1) Perform standing front dive, with reasonably good form. 2) Swim 400 yards continuously using American crawl. 3) Dive from surface to minimum depth of six feet and swim two body lengths under water. 4) Tread water one minute. 5) Float motionless or rest in a floating position with minimum movements of arms and legs for five minutes. Code 2 course fee.

### **HEHP 153 Open Water Scuba Diving 3 s.h. (2 + 2)**

Formerly PE 153 – An elective course for students interested in exploring the undersea world. Students will be taught theory and practice of diving with self-contained underwater breathing apparatus. Each two hours of class instruction will be supplemented by two hours of pool work in the safe use of mask, snorkel, fins, tanks, regulators and related equipment. The class culminates in a series of open water dives. Successful completion of all course requirements will result in an open water scuba certification through the Professional Association of Diving Instructors (P.A.D.I.) Participants must demonstrate the following watermanship skills at first pool session. 1) A 400 yard swim in 10 minutes or less; 2) Surface dive to 13 ft. and recover a 6LB weight; 3) Swim 75 ft. underwater on one breath; 4) 15-minute survival water tread and drown proofing. A physician's medical approval is required by session number five. Prerequisites: Watermanship test, approval of personal physician. Code 5 course fee.

### **HEHP 155 Advanced Open Water Scuba 3 s.h. (2 + 2)**

Formerly PE 155 – A course designed to give the basic scuba diver the knowledge, skills and practical application to safely explore, map and work in the undersea environment. The open water scuba diver will be taught natural and compass navigation skills. He/she will be taught basic search and recovery skills. The class will teach safe diving in limited visibility and night diving. The student will also learn how to dive safely at depth and simulate a decompression dive. Successful completion of all course requirements will result in an Advanced Open Water Scuba Certification through the Professional Association of Diving Instructors (P.A.D.I.). Prerequisites: Pass watermanship test described in HEHP 153. Approval of personal physician. Must be certified open water scuba diver. Code 5 course fee.

### **HEHP 160 Community First Aid and Safety 3 s.h. (2 + 2)**

Formerly HE 160 – A course designed to prepare the student in basic first aid care to the sick or injured. Classroom drills and practice will prepare the student to react properly in accident situations, plan his/her actions and exercise good judgement in adapting his/her classroom training to the accident scene. Students successfully completing the course will be eligible for American Red Cross Community First Aid and Safety Certification. Certification is based on Red Cross requirements. Code 2 course fee.

### **HEHP 172**

#### **International Folk Dance I 1 s.h. (0+2)**

Formerly PE 172 – International Folk Dance has become a popular and fun recreational activity. The dances included in this course were chosen because they are enjoyable, exotic, cultural, interesting and provide a variety of basic steps. They come from many countries including, the Balkans, Macedonia, Greece, Israel, France, England, Scotland, Ireland, Russia, Poland, Syria, Bolivia, Turkey, Africa, and the United States. Code 1 course fee.

#### **HEHP 173 International Folk Dance II 1 s.h. (0 + 2)**

International Folk Dance has become a popular and fun recreational activity. The dances included in this course were chosen because they are enjoyable, exotic, cultural, interesting and provide a variety of basic steps. They come from many countries, including the Balkans, Macedonia, Greece, Israel, France, England, Scotland, Ireland, Russia, Poland, Syria, Bolivia, Turkey, Africa and the United States. Code 1 course fee.

### **HEHP 182 Fitness Measurement 3 s.h.**

Formerly PE 182 – Introduction to measurement, evaluation, test construction, and elementary statistical computation techniques in the Health and Human Performance professions. Interpreting test results and findings through the elements of scientific authenticity and basic statistical techniques. Prerequisites: MATH 156 or background in Statistics.

### **HEHP 185 History and Philosophy of Health and Human Performance 3 s.h.**

This course examines the history and philosophy of Health, Kinesiology and Sport. It surveys cultural heritage, with a broad overview of the history of human performance, and studies philosophical development and ethical implications and their application in these disciplines. Finally, HEHP 185 examines possible career opportunities within these disciplines, including: coaching, teaching, research, health and fitness career options in both the field of Schools/Education (and outside the field of Education, in businesses or as private entrepreneurs). Code 2 course fee.

## health and human performance

### **HEHP 210 Karate I 2 s.h. (1 + 2)**

Formerly PE 210 – An elective course designed for students and adults of the community who wish to learn the mechanics and techniques of karate as a means of self-defense. This course will be offered through the evening division. Code 2 course fee.

### **HEHP 211 Karate II 2 s.h. (1 + 2)**

Formerly PE 211 – An elective course where the student will be given an opportunity to develop proficiency in advanced karate techniques including combinations, advanced kata (form exercises) and semi-free kumite (sparring). During course time exploration will expose students to advanced and tournament level martial arts techniques. Prerequisite: HEHP 210 or consent of instructor. Code 2 course fee.

### **HEHP 212 Martial Arts for Advanced Students 2 s.h. (1 + 2)**

Formerly PE 212 – The student will be given an opportunity to further develop his or her proficiency in advanced Karate technique including combinations using hands, feet, elbows and knees. The student will practice these combinations in target impact sessions to develop form, power, balance and delivery distance. The course will adapt the advanced Katas (sparring form exercise) in the opposite direction thus doubling the students sparring flexibility. These techniques will be used in single attack free sparring and multi-attack semi-free sparring. The class will develop not only the students physical conditioning and skills, but will positively aid self-confidence and self-image while providing a lifetime activity of proven aerobic and cardio-respiratory benefit. Prerequisite: HEHP 210 or consent of instructor. Code 2 course fee.

### **HEHP 222 Motor Learning 3 s.h. (3 + 0)**

This course offers comprehensive information which examines physical and psychological factors related to motor skills and can be applied to teaching progressions needed in the Human Performance and Physical Education curricula. Analysis of the many aspects of movement, including: sensory integration, properties of vision and perception, closed and open loop motor control theories, the role of practice and feedback, and transfer of motor learning. Code 2 course fee.

### **HEHP 225 Contemporary Health 3 s.h.**

Formerly HE 225 – Students will develop skills needed to meet challenges to their health and optimize their physical and psychological well-being. Topics to be examined include consumer education, fitness, family living, nutrition, mental health, dependency, substance abuse, and infectious and chronic diseases. The focus of the course will be on the importance of critical thinking emphasizing self-empowerment, prevention and understanding of the health impact on human diversity. Will fulfill General Education Requirements. Code 2 course fee.

**HEHP 226 Women's Health 3 s.h.**  
Formerly HE 226 – Health care needs of women including promoting health, maintaining wellness, and common physical and psychological conditions pertinent to health are identified. Historical, political, economic and social influences will be examined for their impact on women as consumers and providers of health care. Strategies to empower women to change their outlook of how they deal with the present health care system will be explained. Code 2 course fee.

**HEHP 228 Care and Prevention of Athletic Injuries 3 s.h. (2 + 2)**  
An introductory course designed to instruct the student in the care and prevention of athletic injuries. This course is essential for the future physical education teacher, coach or athletic trainer. Instruction in first aid, injury identification, taping techniques, hot and cold therapy, and situational practices will be included. Code 2 course fee.

**HEHP 237 Sports Officiating 3 s.h. (3 + 1)**  
Formerly PE 237 – An elective course designed for students and adults of the community who wish to learn the mechanics and techniques of officiating involved in many sports peculiar to this country. Code 2 course fee.

**HEHP 238 Management and Rehabilitation of Athletic Injuries 3 s.h. (2 + 2)**  
Formerly PE 238 – An elective course designed to present information and techniques in the use of therapeutic modalities and exercise. This information will be used to relate theory to practice in order to effectively rehabilitate the injured athlete. The student will not only participate in the classroom, but he/she will also gain valuable field experience. Code 2 course fee.

**HEHP 239 Strength and Conditioning Physiology 3 s.h. (2+2)**  
Formerly PE 239 – An elective course designed to present information and techniques associated with the physiological effects of movement and exercise on the human body. The student will also gain valuable knowledge in basic human anatomy, along with the movements that various musculature is responsible for. This information will be used to train athletes to reach their greatest level of fitness, as well as prevent athletic injury. Code 2 course fee.

**HEHP 240 Exercise Physiology 3 s.h.**  
Formerly PE 240 – An elective course intended for students interested in a career in exercise science; physiologists; physical educators; coaches; sports medicine/physical therapists. The student will gain knowledge in the theory and application of exercise physiology, cardiac rehabilitation, sports performance and fitness. In addition, this course will include information on training for improvements, exercise metabolism, neuromuscular function, and health related fitness. Prerequisite: high school biology or HEHP 239. Code 2 course fee.

**HEHP 250 Health Promotion at the Work Site 3 s.h. (2 + 2)**  
Formerly HE 250 – This course is designed to acquaint the student with the process of developing, implementing, and evaluating a health promotion program. The course will include such concepts as how to develop health promotion plans for a worksite, how to set realistic goals and expectations, and how to critique health education material on the market. Code 2 course fee.

**HEHP 252 Nutrition for Fitness and Sport 3 s.h.**  
Formerly HE 252 – A course on how to improve the performance and health of participants in vigorous exercise. It will examine the role of nutrition, fluid intake, and body composition in physical performance and detail some of the special considerations for the younger, older, diabetic and female participant. Code 2 course fee.

**HEHP 255 Nutrition and Health 3 s.h.**  
Formerly HE 255 – An introduction to nutrition, nutrients and their function, and effects in the human body throughout the life cycle. Prerequisite and/or corequisite: high school biology and chemistry or college biology and chemistry recommended. Code 2 course fee.

**HEHP 261 Instructor of Community First Aid and Safety 3 s.h. (2 + 2)**  
Formerly HE 261 – A course designed to prepare the student to give and teach proper first aid at the professional level. Classroom drills and practice will prepare the student to react well in emergency situations, plan his/her actions deliberately, and exercise good judgment in adapting his/her classroom training to the emergency. Instruction will provide the students with the necessary background and tools to become an instructor of Health and Safety courses. Students successfully completing the course will be eligible for the American Red Cross certification in cardiopulmonary resuscitation (CPR) for the professional rescuer (FPR), Instructor candidate training (ICT) and Instructor of Community First Aid and Safety, Automated External Defibrillation (AED). Code 2 course fee. Prerequisite: HEHP 160 or permission of instructor.

**HEHP 265 Kinesiology 3 s.h.**  
HEHP 265 is an overview of the study of human motion, structure and function. Principles governing movements related to the muscles, bones, and joints are emphasized. This information will be used to analyze performance and motor skills. Code 2 course fee.

**HEHP 266 Principles of Exercise Prescription 3 s.h.**  
A personal trainer certification course designed to develop and enhance clinical and practical fitness assessment and performance skill. The student will learn to properly screen and evaluate individuals for safe participation in an exercise program; design and implement exercise prescriptions for multiple populations; and apply principles of exercise in a personal training environment. A personal training certification is available through the National Council of Strength and Fitness upon successful completion of course requirements. Prerequisite: HEHP 160 or proof of current CPR and First Aid certification. Corequisite: HEHP 239. Code 1 course fee.

### History

- Many History courses are writing intensive. Students will be expected to use the skills they have acquired or are acquiring in college English classes.
- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.

**HIST 170 History of Aviation 3 s.h.**  
This course reviews the evolution and key historical events related to commercial aviation. Topics covered include the heritage of flight, the airline environment, types of aerospace system vehicles and their application in the aviation industry, and federal legislation that have impacted aviation.

**HIST 171 Western Civilization I 3 s.h.**  
Formerly H 171 – A survey of Western history from the earliest civilizations to the beginning of the modern era. Emphasis is placed on the changes through time in political, social and religious institutions as well as on intellectual and cultural achievements. The course is designed to help the student to better understand self and society by becoming acquainted with the past history of the Western world.

**HIST 171 Western Civilization I-Honors 3 s.h.**

**HIST 172 Western Civilization II 3 s.h.**  
Formerly H 172 – The survey of Western history is continued from the early modern period to the present. The political, social and industrial revolutions of the 18th and 19th centuries are studied as a prelude to the military conflicts, social changes and intellectual currents of the twentieth century. The course is designed to help students understand the world of today by studying the recent history of their own society.

**HIST 172 Western Civilization II Honors 3 s.h.****HIST 173 United States History I (to 1877) 3 s.h.**

Formerly H 173 – A survey of the history of the United States from the discovery of the Western Hemisphere to the end of the Reconstruction period (1877). The course includes political, social and economic factors important in the foundation of America.

**HIST 174 United States History II (since 1877) 3 s.h.**

Formerly H 174 – A survey of United States history from the end of the Reconstruction period to the present. Emphasis is placed on twentieth-century American history. From an in-depth study of political, social and cultural factors the intent is to assist the student in developing an intensified interest in and understanding of present-day America.

**HIST 175 History of New Jersey 3 s.h.**

Formerly H 175 – This course is designed to teach the development of New Jersey, from Lenni-Lenape to the cultural pluralism of today. It will deal with all aspects of life in the State; social, religious, economic, educational and political.

**HIST 176 United States Military History (Colonial-1975) 3 s.h.**

Formerly H 176 – A study of U.S. Military history from the Colonial times to the 20th Century. Special emphasis is placed on the causes and results of wars, leaders and battles, and the impact U.S. Military History has had in the world. Prerequisites None, though U.S. History I and II and/or comprehensive knowledge of American history is highly recommended.

**HIST 177 History of American Education 3 s.h.**

Formerly H 177 – A study of the historical development of American public schooling, beginning with antecedents from ancient Greece and Rome, Middle Ages, Renaissance, Reformation, Age of Science and the Enlightenment. Three basic periods in American history will be examined: Colonial; nineteenth century common school, high school and college development; and twentieth century movement toward a democratic system of public education. Interwoven themes include educational philosophies, educational goals and related curricular approaches and the legal bases for schooling with resultant organizational and financial support.

**HIST 178 The American West (Colonial to 1890) 3 s.h.**

Formerly H 178 – A detailed examination of the westward movement in United States history. Within such a framework, the student will be acquainted with the various cultural groups that played major roles in the growth of America. The roles and effects of the pioneers, military, Native Americans, Europeans, African Americans, Chinese and other cultural groups will be discussed in detail.

**HIST 179 America in the 1960s 3 s.h.**

Formerly H 179 – This course investigates one of the seminal decades in modern American history. In this ten-year period, events and movements of particular importance occurred which continue to impact in contemporary life. Some of the topics to be examined include the civil rights movement, the assassinations of several prominent leaders, the moon landing, the Vietnam War and the new significance of popular culture in American life.

**HIST 180 Twentieth Century World History 3 s.h.**

Formerly H 180 – A survey of the major political, intellectual, cultural, and religious movements of the Twentieth Century World. Emphasis is placed on the non-western countries including: Africa, India, China, Japan, Russia, Latin America, and the Middle East. This course satisfies the Liberal Arts Diversity requirement.

**HIST 210 Themes in American Civilization 3 s.h.**

Formerly H 210 – An interdisciplinary examination of a general theme in American life that transcends the normal chronological parameters of a traditional American history course. It will allow students to explore various "themes" or topics in American life and to keep current with the latest trends in interdisciplinary studies. A specific theme or topic will be announced in advance each time the course is offered. Prospective themes include: Black political thought; environmentalism in America; popular culture in America; the city in America; race relations; technology, science, and culture in America; immigration and nativism; or other interdisciplinary topics. Prerequisites and/or corequisites: At least 3 credits in American history and 3 credits in American Literature; or permission of the instructor.

**HIST 270 Latin America I 3 s.h.**

Formerly H 270 – A general historical survey of pre-Colonial and colonial Latin America (ca. AD 250 - early 1800s). Emphasis will be placed on the major pre-Columbian cultures (Maya, Inca, Toltec-Aztec), the Spanish conquest, colonial administration, culture and society, missionary activity, and the stirrings of revolution in Latin America. Prerequisites and/or corequisites: HIST 171 or HIST 172 or permission of instructor. This course satisfies the Liberal Arts Diversity Requirement.

**HIST 271 History of England 3 s.h.**

Formerly H 271 – After surveying the ancient period and the coming of the Anglo-Saxons, this course examines the political, social and cultural-economic developments that have contributed to modern England. Emphasis is placed on the origins and development of institutions most affecting the heritage of the English speaking world.

**HIST 272 History of Russia 3 s.h.**

Formerly H 272 – The course traces the evolution of Russian society and the Russian state from its inception more than one thousand years ago to the present. Special attention will be given to the abrupt and radical changes that mark the transition from one epoch to another, especially from the Kievan to the Tartar period, from the Muscovite to the Imperial and from the Imperial to the Soviet. Singled out will also be the reforms in the Russian empire from the emancipation of the serfs to the First World War. In the Soviet period the course will stress the development of the Soviet system and the development of the international communist movement. This course satisfies the Liberal Arts Diversity Requirement.

**HIST 275 History and Culture of China 3 s.h.**

Formerly H 275 – A survey of Chinese civilization from prehistoric times to the People's Republic of China. This course covers the following aspects of Chinese culture: art, literature, religion, science, and political, economic, social and intellectual history. The role of Confucianism in the development of Chinese culture will receive special emphasis. This course satisfies the Liberal Arts Diversity Requirement.

**HIST 279 The Age of Exploration and Discovery 1450-1650 3 s.h.**

An analysis of western civilization from the mid-fifteenth to the mid-seventeenth centuries, when Europeans made important discoveries and underwent changes that transformed the modern world. A sampling of contemporary writings will be discussed. Prerequisites and/or corequisites: HIST 171 or HIST 172 or permission of instructor.

**Histotechnician****HSTO 201 Introduction to Histotechnology 3 s.h.**

Formerly HLT 201 – This course will prepare students for the clinical courses in histotechnology. Lecture topics include the functions and professional responsibilities of histologic technicians within the overall laboratory organization, medical ethics, legal issues, OSHA regulations, infection control, and laboratory safety. Medical terminology, laboratory math, clinical microscopy, clinical chemistry, and quality assurance as they relate to histotechnology will be addressed. Prerequisite: Completion of all general education requirements and acceptance into the program. Code 2 course fee.

**HSTO 202 Gross Anatomy and Introduction to Tissue Identification 3 s.h.**

Formerly HLT 202 – This course will provide a comprehensive overview of the key elements involved in the initial accessioning, evaluation, and processing of various surgical and autopsy specimens. Lectures will focus on the various methods used to accession surgical specimens, the evaluation criteria applied for processing, and the appropriate medical terminology used to describe tissue samples. The principles and use of all equipment, instrumentation and reagents involved in the initial processing procedure will be discussed. During the clinical practicum, the student will observe gross tissue dissection and processing in the affiliate laboratories. Pathologists will discuss and demonstrate macroscopic and microscopic characteristics of normal and diseased tissue. In the student lab, students will review microscopic sections of various tissues and identify basic anatomical structures. Corequisites: HSTO 201, HSTO 203, HSTO 204. Code 5 course fee.

**HSTO 203 Tissue Fixation, Processing and Decalcification 4 s.h.**

Formerly HLT 203 – This course is designed to provide the student with the skills and knowledge necessary to perform the tissue fixation and processing on surgical and autopsy tissues. Criteria for the appropriate fixative agents, processing methods and schedules will be discussed. Decalcification requirements and how they modify the basic processing procedure will also be addressed. The lectures will focus on the underlying physical, chemical, and physiologic principles which influence these processes, and the criteria used to select appropriate methods. The laboratory and clinical practicum will provide extensive hands-on experience with several processing protocols, as well as instrument operation, quality control, preventative maintenance and troubleshooting. Corequisites: HSTO 201, HSTO 202, HSTO 204. Code 5 course fee.

**HSTO 204 Tissue Embedding, Microtomy and Routine Staining 7 s.h.**

Formerly HLT 204 – This course is designed to provide the student with the skills and knowledge necessary to perform tissue embedding, microtomy and routine staining of surgical and autopsy tissues. The lectures will focus on a discussion of correct tissue orientation for the embedding process, the appropriate use of the microtome, and the principles behind nuclear and cytoplasmic staining using the routine hematoxylin and eosin stain (H&E). The laboratory and clinical practicum will provide extensive hands-on experience with several embedding techniques, as well as instrument operation, quality control, preventative maintenance and troubleshooting. Corequisites: HSTO 201, HSTO 202, HSTO 203. Code 5 course fee.

**HSTO 205 Frozen Section and Cytology Preparation 4 s.h.**

Formerly HLT 205 – This course is designed to provide the student with the theory and laboratory skills necessary to perform accurate and timely cryotomy and cytologic preparation procedures including cytopins, cell blocks, fine needle aspiration processing and Papanicolaou staining. The lectures will focus on clinical and diagnostic indications as well as the operation principles, interpretation and sources of error associated with these procedures. The laboratory and clinical practicum will provide extensive hands-on experience in the proper operation of the cryostat, as well as the performance of frozen sections and cytologic preparations on a wide variety of clinical specimens. Prerequisites: HSTO 201, HSTO 202, HSTO 203, HSTO 204. Corequisites: HSTO 206, HSTO 207. Code 5 course fee.

**HSTO 206 Special Stain Techniques I 7 s.h.**

Formerly HLT 206 – This course is designed to provide the student with the theory and laboratory skills necessary to perform and interpret various staining procedures used in the differential diagnosis of disease. The lectures will focus on presenting the underlying chemical and biological principles involved, in histochemical staining, as well as related quality control, and troubleshooting protocols. The laboratory and clinical practicum will provide extensive hands-on experience in the performance, interpretation and evaluation of special stains for carbohydrates, lipids, pigments, minerals, microorganisms and tissue types. Prerequisites: HSTO 201, HSTO 202, HSTO 203, HSTO 204. Corequisites: HSTO 205, HSTO 207. Code 5 course fee.

**HSTO 207 Special Stain Techniques II 6 s.h.**

Formerly HLT 207 – This course is designed to provide the student with the theory and laboratory skills necessary to perform enzyme histochemical and immunohistochemical staining procedures. Lectures will focus on the underlying principles of immunology, enzyme, and ligand chemistry as well as the clinical and diagnostic indications for performance of these tests. The principles of immunofluorescence and enzyme immunoassays will be discussed. The laboratory and clinical practicum will provide students hands-on experience with the performance and interpretation of these procedures as well as related quality control and troubleshooting protocols. Prerequisites: HSTO 201, HSTO 202, HSTO 203, HSTO 204. Corequisites: HSTO 205, HSTO 206. Code 5 course fee.

**HSTO 208 Comprehensive Review 1 s.h.**

Formerly HLT 208 – This course will provide practical applications and integration of previously learned theory and practice to various clinical scenarios. Lectures will include advanced topics in laboratory operations, professional issues, laboratory accreditation processes and additional entry-level skills necessary to prepare for a career in histotechnology. The clinical practicum will provide a comprehensive review for the certification examination and will include an analysis and evaluation of student slide portfolios by affiliate histotechnologists and pathologists. Prerequisites: HSTO 201, HSTO 202, HSTO 203, HSTO 204, HSTO 205. Corequisites: HSTO 206, HSTO 207. Code 3 course fee.

**Honors**

**HONR 292 Honors Seminar II 3 s.h.**

Formerly HON 292 – Through various modes of instruction and learning, honors students are afforded an opportunity to explore questions of identity and reality as these questions have been examined in literature of all ages, genres and languages. Observations and commentary from the social science disciplines and the humanities are integrated into the literary orientation of the course. Four year colleges and universities transfer this course as a literature course. Prerequisite: Three semesters of the honors program including HONR 291.

**HONR 293 Honors Independent Study 3 s.h.**

Formerly HON 293/294 – Honors students will pursue, through independent scholarly investigation, questions related to their particular area or areas of interest. They will work under the supervision of one of the four departments: mathematics, science, social science or humanities. They will be required to produce a paper based on their research that will be subject to the approval of the specific department and the Honors Program Committee. Prerequisite: First year of the honors program.

**HONR 294 Honors Independent Study 3 s.h.**

Formerly HON 293/294 – Honors students will pursue, through independent scholarly investigation, questions related to their particular area or areas of interest. They will work under the supervision of one of the four departments: mathematics, science, social science or humanities. They will be required to produce a paper based on their research that will be subject to the approval of the specific department and the Honors Program Committee. Prerequisite: First year of the honors program.

## Horticulture

### HTEC 163 Introductory Botany 4 s.h. (3 +2)

Presents beginning botany students with an appreciation of the diverse organisms we call plants. Discusses the role that plants have in the biosphere, the environmental issues involved, and a basic understanding of plant diversity and their biology. Botany as a scientific process is stressed throughout the course. Code 2 course fee.

### HTEC 164 Nursery Operations 4 s.h. (3 +2)

Students will learn how to propagate, grow and maintain large stocks of plants. Attention is given to the understanding of the irrigation and lighting requirements of the different varieties of common and exotic plants (shrubs, floral, cacti, trees, turf grass) that make up the inventory of successful nurseries. Best business practices regarding the owning and operation of commercial nurseries are reviewed. Prerequisite: HTEC 163, BUSN 170. Code 2 course fee.

### HTEC 165 Floral and Landscaping 4 s.h. (3 + 2)

This course provides basic instruction in the techniques of floral design. Includes current information on floral products, practices and trends in both floral and landscaping commercial industry. Information is also given regarding the selection of plants for particular needs and designing effects. Corequisite: HTEC 163 Code 2 course fee.

### HTEC 166 Horticulture: Greenhouse and Plant Cultivation 4 s.h. (3 + 2)

This course emphasizes the basic principles and practices of horticulture. Horticulture is presented as a science, an art, and a business. Students are introduced to the four general areas of horticulture: ornamental horticulture, fruit culture, vegetable culture, and landscape architecture. Prerequisite: HTEC 163 Code 2 course fee.

### HTEC 236 Soil Science 4 s.h. (3 + 2)

Reviews the components that make up soils— mineral particles, organic matter, organisms, pores, water—and explains how they relate to one another to form soil, and with plants and microbes to form an ecosystem. The course discusses origins and types of soils, along with soil formation, soil classification and soil series. Prerequisite: BIOL 162 Code 2 course fee.

### HTEC 237 Turf and Grounds Management 4 s.h. (3 + 2)

Covers the important features of turfgrass systems, interactions between and among system components, and principles of turfgrass management. The course discusses turfgrass quality and how it can be sustained, and the types of equipment used. Botanic descriptions, environmental adaptations, cultural requirements, and use of turfgrass species are central topics, as are discussions on the use of pesticides for weed, nematode and insect pest controls. Prerequisite: HTEC 163, BUSN 170 Code 2 course fee

### HTEC 238 Plant Diseases and Pests 4 s.h. (3 +2)

Plant pathogens such as fungi, bacteria, viruses, and mycoplasma-like organisms and other plant pests are studied in detail with the aim of understanding their control. Technical and practical information needed for decision-making and day-to-day operation in all areas of horticulture and turfgrass management will be reviewed. Prerequisite: BIOL 162, HTEC 163 Code 2 course fee.

### HTEC 239 Field Experience/Practicum 3 s.h.

Required of all horticulture and turf management majors. This course is intended to provide an off-campus work-study experience (e.g. golf course maintenance, sod producer, lawn and landscape maintenance, or nursery) that is planned and conducted under the supervision of a Science faculty member. It is desirable to require that all students be placed in a paid summer intern placement (two and a half to three month period). Arrangements must be made well in advance before the course is to be taken. Prerequisite: At least 35 s.h. in horticulture and turf management courses.

## Humanities

### HUMN 200 The Faces of Modernism 3 s.h.

Formerly HU 200 – The artistic movement known as Modernism produced the most comprehensive change in Western culture since Romanticism. This course enables the student to see connections among literature, art, and music from a Modernistic, multiculturally diverse perspective. Students will collaboratively study, discuss and make use of journals to write about a variety of modernist works. Prerequisites and/or corequisites: ENGL 151 or permission of instructor.

### HUMN 297 Special Topics in the Humanities 3 s.h.

Formerly HU 297 – This course is designed for Honors Students to study, in a seminar format, interdisciplinary topics in the Humanities. The course will vary in content, but will retain the consistent objective of integrating two or more Humanities disciplines (art, music, theater, literature, philosophy) in the analysis of culture and its artifacts. The course will be mindful of contemporary cultural theory in its approach to selected topics. Prerequisite: ENGL 151 and placement in the Honors Program.

## Human Services

- All Human Services classes have a required field visit and/or service learning component.

### HSRV 191 Human Services as a Social Institution 3 s.h.

Formerly SS 191 – A survey course for students who are interested in exploring social problems and how the field of human services responds through organized social programs. The course will examine welfare reform in America and will explore poverty, services to families and children, violence, addictions, delinquency, crime, emotional problems, racism, sexism and other timely issues facing our society.

### HSRV 193 Crisis Intervention 3 s.h.

Formerly SS 193 – This course introduces the student to crisis intervention. It is designed specifically for students entering or employed in the law enforcement and social work professions who have frontline responsibility for providing preventive mental health care or crisis management. Students will study crisis intervention theory, learn to make assessments and referrals to appropriate community agencies and develop skills in crisis intervention and crisis management through role playing and other experiential exercises. Prerequisite or corequisite: PSYC 172.

### HSRV 194 Interviewing and Communication Techniques 3 s.h.

Formerly SS 194 – This course focuses on the development of personal insight into the process of human communications through examination of theory, discussions and experiential laboratory exercises. Its major goal is to develop an understanding of the processes of human communication and to provide an opportunity for each student to experiment with his or her own personal communicative behavior. The course will also include theories of interpersonal relationships, and verbal and nonverbal skills necessary for effectiveness in the human services field. Prerequisite: PSYC 172.

### HSRV 200 Gerontology The Study of Aging 3 s.h.

Formerly SS 200 – This course is geared toward introducing the student to an understanding of the scope of gerontology with an opportunity to examine the socio-cultural psychologic-biological factors in aging. Consideration will be given to an overall perspective of the past, the present and the prospective roles for older people within the context of a post-industrial society marked by change and complexity.

**HSRV 201 The Economics of Aging** 3 s.h.

Formerly SS 201 – This course will explore the major economic aspects of the graying of America. The economic status of specific subgroups of the elderly as well as of the aged as a whole will be examined. The effectiveness of Social Security, pension and health programs for the elderly will be evaluated. Finally, implications for the future of the economics of aging will be explored. Prerequisite: HSRV 200.

**HSRV 204 Counseling Older Adults and Their Families** 3 s.h.

Formerly SS 204 – This course is designed to increase students' awareness of the transitions, crises, challenges and counseling needs that are unique to older adults. Upon consideration of such relevant factors as cohort experiences, ethnicity, cultural values and potential communication problems, students will apply appropriate counseling and intervention techniques. A systems approach will be emphasized, i.e., providing assistance within the context of the social environment. The course will also focus on ways to enhance the independence of older people through family counseling and support groups. Prerequisites: HSRV 200 Gerontology: The Study of Aging. PSYC 194 recommended.

**HSRV 206 Aging and Health** 3 s.h.

Formerly SS 206 – This course focuses on normal age-related changes and their impact on human functioning and behavior. In addition, the effects of chronic disease on the independence and quality of life of older persons will be examined. Finally, problems in the medical treatment of the elderly as well as strategies for health promotion will be explored. Prerequisite: HSRV 200.

**HSRV 291 Principles of Social Work** 3 s.h.

Formerly SS 291 – This course is designed to introduce the student to various practices and principles in the field of social work. Generic assumptions, values and philosophy will be examined. The role of the social worker in relation to clients and the other helping professions and as an agency and societal representative will be considered. The helping process and specific interventive skills will be illustrated by materials drawn from case work, group work and community organization methods. Prerequisite: HSRV 191 or permission of instructor.

**HSRV 292 Field Experience in Social Welfare** 4 s.h. (2 + 6)

Formerly SS 292 – Course will consist of a one-day-a-week internship in an approved helping services setting and a weekly seminar. The internship will provide experiential learning through involvement in the daily operation of the agency and permit the student to apply principles and concepts to working with clients. In the seminar, experiences can be shared and related to the goals, responsibilities and philosophy of the helping services. Prerequisite: HSRV 191 or permission of human services technician coordinator. HSRV 292 is offered only in the spring semester and should be taken in the student's final spring semester.

**Internships****INTR 290**

Formerly INT 290 INTERNSHIP I – This course offers students the opportunity to apply the academic knowledge gained from the classroom and gain practical experience in the work environment. Students completing an internship observe emerging workplace trends and enhance their employability. Internships may be paid or unpaid and must be directly related to career goals. Internships are available in Journalism, Legal Assistant, Teaching Assistant/Child Care, Human Services, Criminal Justice and Electronic Media programs. Prerequisites: minimum 2.5 GPA, minimum of two full-time semesters equivalent in the intended program, permission of department dean and internship supervisor.

**Latin****LATN 201 Intermediate Latin I** 3 s.h.

This course studies the works of Cicero and the prose writings of other Latin authors, including Pliny and Allust. Prerequisites: Two years of high school Latin and the permission of the instructor

**LATN 202 Intermediate Latin II** 3 s.h.

This course promotes the skill areas of translating, reading and scansion of Virgil. The complexities of translation and of the accurate pronunciation of Roman poetry in dactylic hexameter are emphasized. Special attention is paid to the influence of Virgil's *AENEID*. Prerequisites: LATN 201 Intermediate Latin I

**Legal****LAAW 101 Introduction to Law and Legal Assisting** 3 s.h.

Formerly LA 101 – A survey of the philosophical and historical background of the Federal and state systems of jurisprudence. An introduction to the nature and functions of the agencies responsible for administration of the state law. Develops and examines the role of the paralegal in relationship to the supervising attorney both as to ethical and professional concerns.

**LAAW 104 Introduction to Litigation** 3 s.h.

Formerly LA 104 – An analysis of the common types of litigation, premises of litigation, sources of law, the court systems, attorneys, types of suits, usual defenses, New Jersey civil procedure, discovery procedures, court procedures, trial, post-trial motion, appeal, enforcement of judgment. Particular attention to the role of the legal assistant in preparation of documents and assistance to attorneys in matters of litigation. Prerequisite: LAAW 101.

**LAAW 105 Health Care Law** 3 s.h.

Formerly LA 105 – This course is designed for the legal assistant or health care professional who wants to further understand the legal requirements and legal influence in the delivery of health care services. Regulatory law, statutory law, and case law will be presented and studied.

**LAAW 106 Mediation and Conflict Resolution** 3 s.h.

Formerly LA 106 – A study of the emerging field of conflict resolution as it relates to the paralegal. The course emphasizes alternative methods of resolving legal conflicts. The philosophy of the course embodies the idea that alternative methods of conflict resolution improve the quality of decision making, develop a greater capacity for avoiding protracted disputes and create a culture of cooperation. These are skills necessary for the paralegal as the field of law evolves from confrontation to cooperation.

**LAAW 110 Introduction to Nurse Paralegalism** 3 s.h.

An introduction to the Legal Nurse profession including an examination of the history and evolution of legal nurse and the role of the legal nurse and the areas of legal analysis, legal research and writing, review and analysis of medical records, litigation procedures, medical/legal ethics and personal injury law. The business and marketing plan and the role of an independent legal nurse practitioner will also be examined.

**LAAW 201 Legal Research and Writing for Paralegals 3 s.h.**

Formerly LA 201 – An introduction to legal research and writing designed for the legal assistant. The student will become familiar with the law library and the various legal reference material needed in determining the applicable law. Students will write memoranda presenting the results of the research. The course will contain several problems requiring legal research and memorandum writing utilizing statutes, case reports, citators, encyclopedias and other reference material. Prerequisites: ENGL 151 and LAAW 101.

**LAAW 203 Law Office Management 3 s.h.**

Formerly LA 203 – A course designed to prepare the paralegal to manage a law office. The functions of planning, organizing, controlling and directing a law office are explored. Prerequisite: LAAW 101 or consent of instructor.

**LAAW 204 Estate Administration 3 s.h.**

Formerly LA 204 – A study of the common forms of wills and trusts. A survey of the principles of law applying to each and of the specific statutes and codes relating to each. The matter of intestacy is also studied. Deals with the organization and jurisdiction of probate court. Concerns the planning and administration of estates and tax implications thereof. Specifically relates the role of the paralegal in preparing research and documentation for trust and estate matters.

**LAAW 205 Criminal Trial Practice 3 s.h.**

Formerly LA 205 – A study of criminal trial and motion practice for the paralegal. The course covers the identification and performance of the skills necessary for initial client contact, the issues of professional responsibility and legal ethics, municipal court practice, superior court practice, sentencing, and post trial proceedings. Prerequisites and/or corequisites: BUSN 251 or LAAW 101.

**LAAW 206 New Jersey Family Law 3 s.h.**

Formerly LA 206 – An introduction and survey of the common forms used in the practice of family law within New Jersey. A survey of the principles of law applying to each of the specific statutes and cases relating to each. A review of divorce, adoption, property settlement agreements, alimony, equitable distribution of property, and tax consequences of divorce. The course deals with the organization and jurisdiction of the Superior Court, Juvenile Domestic Relations Court and other courts having civil jurisdiction over family law matters. The course specifically relates to the role of the paralegal in preparing forms and dealing with clients in the securing of information for litigation pending in the family courts.

**LAAW 210 Medical Legal Ethics 3 s.h.**

An examination of the major ethical codes of the medical and legal professions as set forth by the American Bar Association, the American Medical Association, the American Nurses Association, The American Association of Legal Nurse Consultants, the National Association of Legal Assistants, and the National Federation of Paralegal Associations. Also an examination of the application of the principles of these codes to contemporary medical and legal issues, emphasizing the role of the legal nurse. Prerequisite: LAAW 110

**Mathematics**

High school transcripts are required for appropriate placement in mathematics and language courses.

Graphing calculators and computers will be used as learning devices in all appropriate courses.

**MATH 001 Basic Mathematics 3 s.h.**

Formerly M 001 – For students who need to remediate their arithmetic deficiencies, MATH 001 reviews computations with whole numbers, fractions, decimals and percents. Emphasis is placed on practical applications requiring computational skills. This course cannot be used to satisfy degree requirements.

**MATH 011 Introduction to Algebra I 3 s.h.**

Formerly M 011 – A course designed for those students who do not have the necessary background in basic algebra or are in need of a thorough review of basic algebra. Topics include: operations and real numbers, solution of linear equations and linear inequalities with mathematical modeling of real life applications, graphing linear equations and inequalities, solving systems of linear equations with mathematical modeling of applications and operations with polynomials. This course may also be offered on a home study basis. This course cannot be used to satisfy degree requirements. Code 1 course fee.

**MATH 012 Introduction to Algebra II 3 s.h.**

Formerly M 012 – A continuation of MATH 011. Topics include factoring a polynomial, solving quadratic and cubic equations, rational expressions, equations of straight lines, radical expressions and the application of algebraic techniques to problem solving. This course may also be offered on a home study basis. This course cannot be used to satisfy degree requirements. Prerequisite: MATH 011 or algebra placement of MATH 012. Code 1 course fee.

**MATH 147 Business Mathematics 3 s.h.**

Formerly M 147 – Topics include simple interest, bank discount, depreciation, amortization, and annuities with applications. Prerequisite: MATH 012 or algebra placement requiring no remediation.

**MATH 149 Mathematics of Finance 3 s.h.**

Formerly M 149 – The mathematics related to loans and investments are presented in depth. Topics discussed include simple and compound interest, annuities and perpetuities, amortization and sinking funds, stocks and bonds, and life insurance. Prerequisite: MATH 012 or algebra placement requiring no remediation.

**MATH 151 A Survey of Mathematics 3 s.h.**

Formerly M 151 – A mathematical course for liberal arts students. Topics include sets probability, logic systems of numeration, groups, and mathematical systems. This course may also be offered on a home study basis and online as a distance learning course. Prerequisite: MATH 012 or algebra placement of no remediation. Code 1 course fee.

**MATH 156 Introduction to Statistics 3 s.h.**

Formerly M 152 – An introductory level course for non-mathematics majors who need or desire a working knowledge of statistics. This course is oriented toward all fields in which statistics find applications. Topics include: summarizing data, probability, normal and binomial distributions, hypothesis testing, confidence intervals and correlation. This course may also be offered on a home study basis and online as a distance learning course. Prerequisite: MATH 012 or algebra placement of no remediation. Students must complete all required reading remediation before enrolling in this course. Code 2 course fee.

**MATH 161 College Algebra for Science, Mathematics, Computer Science, and Engineering Majors 6 s.h.**

Formerly M 157 – This course is for Science, Mathematics, Computer Science and engineering Majors only. The course will cover functions, equation solving, mathematical modeling and problem solving, polynomial, rational and irrational expressions, systems of equations, conic sections, parametric equations and complex numbers. Technology will be used throughout the course. The course is specifically designed as an accelerated sequence and when combined with MATH 195 (a course that combines Precalculus I and II) will enable a serious science, mathematics, computer science, or engineering student to start calculus at the beginning of the sophomore year. Students cannot earn graduation credits for both MATH 161 and MATH 165. Prerequisite: MATH 011 or algebra placement of MATH 012 and permission of advisor or instructor. Code 1 course fee.

**MATH 165 College Algebra 5 s.h.**

Formerly M 155 – This course will provide a thorough understanding of the more difficult algebraic concepts necessary for MATH 191 and MATH 192. Topics will include the following presented beyond the elementary level: polynomials, linear and quadratic equations and inequalities, rational expressions and equations, exponents and radicals, graphing techniques; systems of equations, conic sections, relations and functions. This course may also be offered on a home study basis. Students cannot earn graduation credits for both MATH 161 and MATH 165. Prerequisite: MATH 012 or algebra placement of no remediation. Code 1 course fee.

**MATH 171 Finite Mathematics 3 s.h.**

Formerly M 153 – A mathematics course for liberal arts students. The topics covered are linear graphing, matrices with applications, and linear programming including the Simplex Method. Computers and graphing calculators will be utilized by the students. This course may also be offered on a Home Study basis. Prerequisite: MATH 012 or algebra placement of no remediation. No reading remediation strongly recommended. Code 2 course fee.

**MATH 181 Introduction to Probability 3 s.h.**

Formerly M 154 – A mathematics course for liberal arts Students. Topics presented are selected from set theory, probability, binomial distributions, Markov chains, game theory, graphs and trees. Prerequisite: MATH 012 or algebra placement of no remediation. No reading remediation strongly recommended.

**MATH 191 Precalculus I 3 s.h.**

Formerly M 163 – Polynomial, rational and trigonometric functions and their inverses are studied from an algebraic, analytic and graphic perspective. The Fundamental Theorem of Algebra, complex numbers, mathematical modeling and other algebraic concepts are also studied. Students completing MATH 191 and MATH 192 may then enroll in MATH 265. Students cannot earn graduation credits for both MATH 191/192 and MATH 195. Prerequisite: MATH 165 or MATH 161 or algebra placement of no remediation and high school Algebra II with a grade of C+ or higher. Students who were required to take MATH 011 and/or MATH 012 are required to take either MATH 165 or MATH 161 before enrolling in MATH 191.

**MATH 192 Precalculus II 3 s.h.**

Formerly M 164 – The course is a continuation of MATH 191. It includes the study of trigonometric identities and equations, complex numbers, exponential and logarithmic functions from and algebraic, analytical, and graphical perspective. Optional topics include determinants sequences, analytic geometry, applications modeled by trigonometric functions and mathematical induction. Prerequisite: MATH 191 or equivalent with instructor's permission or high school calculus with a grade of B or higher.

**MATH 195 Precalculus I and II for Science, Math, Computer Science, and Engineering Majors 6 s.h.**

Formerly M 167 – A course designed specifically for Mathematics, Science, Computer Science and/or Engineering majors or any student who wishes to be ready for Calculus I in one semester. It will cover equations and inequalities including absolute value, polynomial rational, radical, trigonometric, inverse trigonometric, logarithmic and exponential functions, analytic trigonometry, analytic geometry, polar coordinates and parametric equations. This course is an accelerated sequence and when combined with MATH 161, will enable a serious student to begin calculus in the two semesters. Students cannot earn graduation credits for both MATH 191/192 and MATH 195. MATH 161 or MATH 165 and permission of instructor, or three high school algebra including trigonometry.

**MATH 201 Precalculus Techniques and Applications 4 s.h.**

Formerly M 261 – This course is specifically designed as an accelerated review of algebraic, geometric, and trigonometric topics that will enable the highly motivated student to begin calculus immediately upon completion. Critical thinking skills will be developed through the study of polynomial, rational, trigonometric, logarithmic, and exponential functions and their graphs from algebraic, analytic, and geometric perspectives. Other topics to be studied are systems of equations, and inequalities, matrices and determinants, sequences and series, and mathematical induction. Technology and mathematical modeling will be utilized throughout the course. NOTE: Students who complete MATH 192 or MATH 195 with a grade of B or higher should not need MATH 201 prior to enrolling in MATH 265. Prerequisite: algebra placement of no remediation and a minimum of three years of high school algebra including trigonometry with a 1 or higher.

**MATH 241 Applied Calculus 3 s.h.**

Formerly M 264 – This course is a survey of the major topics in calculus and their applications without an emphasis on theory. The course topics include limits, derivatives, integrals and their applications. It is designed for the student needing calculus as a tool in other areas of study. Technology will be employed throughout the course. This course does not fulfill the calculus requirement for business, engineering, mathematics, or science majors. MATH 192 or MATH 195 or MATH 201 or high school Precalculus with a grade of B or higher.

**MATH 265 Calculus I 4 s.h.**

Formerly M 265 – A study of limits and continuity, differentiation formulas for algebraic trigonometric, inverse trigonometric, exponential and logarithmic functions, higher order derivatives, mean value theorem, applications of the derivative including related rates, maximum-minimum; graphing L'Hospital's Rule; antiderivates; the definite integral; integration using substitution; applications of the integral to evaluation of area; alternate definition of the natural logarithmic function. Prerequisite: MATH 192, MATH 195 or MATH 201 or algebra placement of no remediation and four years of high school algebra including trigonometry with a grade of B or higher recommended.

**MATH 266 Calculus II 4 s.h.**

Formerly M 266 – A study of applications of the integral including area, volume, arc length, surface area, work; techniques of integration; improper integrals; infinite sequences and series; Taylor and Maclaurin series with applications; parametric equations; polar coordinates. Prerequisite: MATH 265 with a grade of C or higher.

**MATH 267 Calculus III 4 s.h.**

Formerly M 267 – A study of three-dimensional analytic geometry, vectors and vector functions; derivatives with applications; multiple integrals with applications; vector calculus including Greens Theorem and Stokes Theorem. Prerequisite: MATH 266 with a grade of C or higher recommended.

**MATH 270 Discrete Mathematics 3 s.h.**

Formerly M 270 – This course is recommended for computer science and mathematics majors. The topics include: sets, logic, mathematical induction, recursion, combinations, probability, graph theory and Boolean algebra. Prerequisite: MATH 265. Corequisite: MATH 266 or permission of the instructor.

**MATH 275 Linear Algebra 3 s.h.**

Formerly M 272 – This course covers topics in linear algebra, including systems of linear equations, Gaussian Elimination, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and computer applications. Prerequisite: MATH 266.

**MATH 280 Differential Equations 3 s.h.**

Formerly M 268 – Topics include modeling and solving first-order differential equations, modeling and solving higher-order differential equations, both linear and non-linear, solution of differential equations by power series and Laplace transforms, matrices and determinants. Technology will be utilized. Prerequisite: MATH 267.

**Music**

**MUSC 140 Jazz Ensemble Studies I** 3 s.h. (2 + 2)

**MUSC 141 Jazz Ensemble Studies II** 3 s.h. (2 + 2)

**MUSC 240 Jazz Ensemble Studies III** 3 s.h. (2 + 2)

**MUSC 241 Jazz Ensemble Studies IV** 3 s.h. (2 + 2)

Formerly MU 140/141/240/241 – A study of jazz styles, techniques, and the history and literature of American jazz. For students who wish to develop their practical musicianship in innovative performing jazz ensemble studies. Prerequisites: Instructor approval based on prior jazz ensemble experience and audition; concurrent enrollment in Concert Band MUSC 173, 174, 273, 274 is desirable. Possession of the appropriate musical instrument is required. Code 2 course fee.

**MUSC 150 Introduction to Keyboard Instruction I** 3 s.h. (2 + 2)

Formerly MU 150 – This course is designed as an introduction to piano playing for students with no prior music experience. In addition to sight reading, transposition and improvisation, this is a very practical way of introducing the materials of music to students who plan to study music further or just play for their own enjoyment. Code 2 course fee.

**MUSC 151 Introduction to Keyboard Instruction II** 3 s.h. (2 + 2)

Formerly MU 151 – This course is designed for students who have a basic knowledge of piano playing. In addition to continuing and expanding the topics of MUSC 150, the course will enable students to learn harmonization of tunes and basic elements of interpretation. Forms and styles of traditional music will be presented and supplemented with examples of students and instructor. Code 2 course fee.

**MUSC 160 College Choir I** 1 s.h.

**MUSC 161 College Choir II** 1 s.h.

**MUSC 260 College Choir III** 1 s.h.

**MUSC 261 College Choir IV** 1 s.h.

Formerly MU 160/161/260/261 – The aim of the choir is to develop and perpetuate a high standard of choral-ensemble singing. Open on a noncredit basis to interested students and others who do not wish to take the course for credit (Tone test required).

**MUSC 164 Group Voice I** 2 s.h. (1 + 2)

**MUSC 165 Group Voice II** 2 s.h. (1 + 2)

**MUSC 264 Group Voice III** 2 s.h. (1 + 2)

**MUSC 265 Group Voice IV** 2 s.h. (1 + 2)

Formerly MU 164/165/264/265 – This course is designed to develop the range and quality of the singing voice. Fundamentals of vocal technique and introduction to vocal repertory are emphasized. The ability to read music would be helpful.

**MUSC 173 Concert Band I** 1 s.h.

**MUSC 174 Concert Band II** 1 s.h.

**MUSC 273 Concert Band III** 1 s.h.

**MUSC 274 Concert Band IV** 1 s.h.

Formerly MU 173/174/273/274 – For music students who wish to perform in innovative instrumental performing groups and develop their practical musicianship. Students will demonstrate further proficiency on their instruments and in ensemble performance. Code 2 course fee.

**MUSC 181 Theory of Music I** 3 s.h.

Formerly MU 181 – An introduction to the theory of music including ear training, dictation and sight reading.

**MUSC 182 Theory of Music II** 3 s.h.

Formerly MU 182 – A continuation of MUSC 181 with instruction in musical analysis, techniques of composition and student projects of a creative nature. Prerequisite: MUSC 181 or permission of the instructor.

**MUSC 190 Introduction to Music Appreciation** 3 s.h.

Formerly MU 190 – This course is planned primarily for students without previous training. The most important styles and types of music will be studied through the examination of representative examples drawn from the different eras of music history. Recorded and visual materials will be utilized to stimulate a discriminating understanding and enjoyment of the various styles and types of music.

**MUSC 194 Music of the World's Peoples** 3 s.h.

Formerly MU 192 – This course is primarily for students without previous musical training. Through case studies, the music of various cultures is studied in the context of human life. Recorded visual materials and a student-selected "field study" stimulate understanding and appreciation for various types of music in our world.

**MUSC 250 Intermediate Keyboard Instruction I** 3 s.h. (2 + 2)

Formerly MU 250 – This course is for students with a background in the fundamentals of music and basic keyboard skills. Improvisation and creating accompaniments for melodies are taught as well as works from the standard keyboard repertoire. Prerequisite: MUSC 151 or equivalent. Code 2 course fee.

**MUSC 251 Intermediate Keyboard Instruction II** 3 s.h. (2 + 2)

Formerly MU 251 – A continuation of MUSC 250 with instruction in accompanying, choral and instrumental score reading and contemporary idioms. Prerequisite: MUSC 250. Code 2 course fee.

**MUSC 282 Harmony I** 3 s.h.

Formerly MU 282 – Diatonic harmony. A study in chord structure and chord relationships. Harmonization of melodies and analysis of four-part writing. The course will provide the student with harmonic materials to compose in traditional music styles. Prerequisites: MUSC 181-182 or MUSC 150-151. Code 2 course fee.

**MUSC 283 Harmony II** 3 s.h.

Formerly MU 283 – Chromatic harmony. A continuation of MUSC 282 with concentration and chromatic harmonization, modulation and figured bass. The course will provide students with advanced harmonic materials for composition and analysis of music. Prerequisite: MUSC 282.

**MUSC 910 Ocean County College Community Chorus** n.c.

Formerly MU 910 – The Ocean County College Community Chorus is a service of the college affording citizens of the county the opportunity to meet weekly for instruction and rehearsals and to prepare for performances of major choral works. The aim of the chorus is to develop and perpetuate high musical standards (Audition Required).

**Nursing**

**NURS 160 Career Mobility Track Seminar I** 1 s.h. (.13+.10+.33)

Formerly NU 160 – This seminar includes select topics from NURS 170. Prerequisite: Acceptance into the Career Mobility Track Program. Corequisite: NURS 161. Code 3 course fee.

**NURS 161 Career Mobility Track Seminar II** 3 s.h. (.8+.6+2)

Formerly NU 161 – This seminar includes select topics from NURS 171. Prerequisite: Acceptance into the Career Mobility Track Program. Corequisite: NURS 160. General education must be taken prior to entering the Career Mobility Track Program. Code 3 course fee.

**NURS 162 Career Mobility Track Seminar III** 1 s.h. (.33+0+.66)

Formerly NU 162 – This seminar includes select topics from NURS 172. Prerequisites: NURS 160, NURS 161. Corequisites: NURS 163. Code 6 course fee.

**NURS 163 Career Mobility Track Seminar IV** 6 s.h. (.8+3.6+4)

Formerly NU 163 – This seminar includes select topics from NURS 173. Prerequisites: NURS 160, NURS 161. Corequisite: NURS 162. Code 6 course fee.

**NURS 169 The Route to Success in the Nursing Program** 1 s.h. (1+0)

Formerly NU 169 – This course provides the nursing student with the entry level information needed for success in the Nursing Program. Topics include the policies and procedures of the Nursing Department, study skills, math skills, test-taking techniques, safety in the environment of care, student resources, & opportunities for student involvement. Administration of a standardized test will provide an academic/social profile which will provide information helpful in meeting individual student needs. This is a prerequisite course to the Nursing Program. Prerequisite: Acceptance into the Nursing Program. Code 3 course fee.

**NURS 170 Mental Health Nursing I: Therapeutic Communication** 1 s.h. (.85+.15)

Formerly NU 170 – Designed to be used by the beginning nursing student, this required course focuses on therapeutic communication principles and techniques involved in the interpersonal process analysis inherent in the nurse-client relationship. Self-awareness, self-learning, cultural and spiritual needs are addressed. Prerequisite: NURS 169. Corequisite: NURS 171. Code 5 course fee.

**NURS 171 Nursing I** 8 s.h. (4.5+10.5)

Formerly NU 170 – A course designed to introduce the nursing student to nursing as a profession and a practice discipline. The roles of the Associate Degree Nurse are explored. Core components of nursing practice are introduced as an organizing framework for the course with emphasis on critical thinking and the nursing process. Holistic patient assessment is utilized in formulating therapeutic, caring interventions for patients across the life span. Discussion will also include the application of the nursing process to the care of adults with disorders of the musculoskeletal system. Prerequisite: NURS 169. Corequisite: NURS 170. General education may be taken prior to entering the nursing program. The evening option is designed for students who have completed the general education courses. Code 7 course fee.

**NURS 172 Mental Health Nursing II: Anxiety Behavior** 1 s.h. (1+0)

Formerly NU 172 – Designed to be used by the second semester nursing student, this required course focuses on further interpersonal process analysis and the nurse-client relationship, described in NURS 170, and relative to clients with anxiety disorders. The psychological theories and the psychobiology of generalized anxiety disorders, phobias, obsessive compulsive disorder, somatoform disorders, psychophysiological disorders, substance abuse, codependent behavior, and verbal abuse are included. Prerequisites: NURS 169, NURS 170, NURS 171. Corequisites: NURS 173, NURS 174. Code 3 course fee.

**NURS 173 Nursing II** 8 s.h. (4.5+10.5)

Formerly NU 173 – A course designed to investigate health alterations that affect the essential activities of daily living and human needs. Discussion will focus on the application of the nursing process to the care of adults with disorders of the immune, respiratory, gastrointestinal, hematological, reproductive and sensory systems. Prerequisites: NURS 169, NURS 170, NURS 171, BIOL 130. Pre- or corequisite: BIOL 131. Corequisites: NURS 172, NURS 174. Code 7 course fee.

**NURS 174 Nutrition** 3 s.h. (3+0)

Formerly NU 174 – A broad introductory course that emphasizes basic principles of nutrition. The role of nutrients and fluids in the maintenance of life in individuals of all ages is explored. The effect of nutrition and diet on the promotion and maintenance of health and wellness and in the prevention and management of various diseases, illnesses and disorders in individuals of all ages is addressed. Additionally, the nurse's role in the application of principles of nutrition in the care of patients of all ages and in multiple settings is discussed. Cultural diversity is discussed when appropriate. Open to non-nursing students by permission of instructor. Prerequisite: BIOL 130 with grade of C or better. Pre- or corequisite: BIOL 131 with grade of C or better. Code 3 course fee.

**NURS 175 Nursing I** 9 s.h. (6 + 3)

A course designed to introduce the nursing student to nursing as a profession and practice discipline. The role of the Associate Degree nurse is explored as provider of care, manager of care and member of the discipline of nursing. The core components of nursing practice are introduced as an organizing framework with the focus on provider of care and introduction to critical thinking. Categories reflecting human needs and the nursing process formulate a holistic patient assessment incorporating therapeutic, caring interventions for patients across the life span. Prerequisites: All accompanying requirements listed in the student manual (such as health requirements and CPR certification). Corequisites: Courses as listed in the main portion of the catalog. General education courses may be taken prior to entering the nursing program. The evening program option is designed for students who have completed the general education courses. Code 7 course fee.

**NURS 270 Nursing III** 8 s.h. (4.7+9.9)

Formerly NU 270 – This course is designed to focus on nursing care of the client with any of the following system disorders: nervous/sensory, endocrine, renal or cardiac disorders. The focus is on synthesis of previous content with integration of advanced medical-surgical nursing considerations. Clinical experiences will be in acute care, community health and rehabilitation. Prerequisites: NURS 169, NURS 170, NURS 171, NURS 172, NURS 173, NURS 174. Pre- or corequisite: BIOL 232. Code 7 course fee.

**NURS 271 Nursing IV** 8 s.h. (5+9)

Formerly NU 271 – This final course expresses application of the nursing process to the care of clients with complex health care needs across the life span with a focus on several major nursing care specialties the graduate nurse will encounter in practice. These specialties are: maternal-child nursing (traditionally known as obstetrics and pediatrics), psychiatric nursing (care of the mentally ill) and nursing care of the critically ill client. Prerequisites: NURS 169, NURS 170, NURS 171, NURS 172, NURS 173, NURS 174, NURS 270. Corequisite: NURS 272. Code 7 course fee.

**NURS 272 Contemporary Nursing** 4 s.h. (2+6)

Formerly NU 272 – This course is concerned with the issues facing the nursing professional today. Special emphasis on material necessary for a smooth transition from the role of nursing student toward that of practicing nurse. Literature inside and outside the profession will be included to encourage the student to think critically about important issues. Historical perspectives, sociological/financial perspectives, legal, ethical, management, leadership and political issues will be discussed. Prerequisites: NURS 169, NURS 170, NURS 171, NURS 172, NURS 173, NURS 174, NURS 270. Corequisite: NURS 271. Code 3 course fee.

## Philosophy

**PHIL 190 Introduction to Critical Thinking** 3 s.h.

This course presents critical thinking as a set of conceptual tools and analytical skills used for better understanding and evaluating the world around us. Classroom time is divided between (1) the development of basic concepts and evaluative frameworks used in critical thinking and (2) practice in applying these concepts and frameworks. Topics covered include the nature of argument, inductive and deductive reasoning, language and rhetoric, theory of knowledge, interpretation theory, problem solving, and informal fallacies.

**PHIL 191 Introduction to Philosophy** 3 s.h.

An introduction to Western philosophy through a survey and exploration of significant problem areas of philosophy: metaphysics, theory of knowledge, ethics, political philosophy and philosophy of religion. Through lecture and discussion, topics are covered historically, but also covered by stressing their relevance to current conditions and contemporary problems. Students are encouraged to think and write critically, be creative and develop their own philosophical perspective and world view.

**PHIL 192 Contemporary Ethical Issues** 3 s.h.

This course considers some of the major unresolved moral issues of our time. The approach is non-theoretical. The major areas discussed are sex and society, crime and punishment, racial discrimination, the values of a business society and alienation in the modern world. No prerequisite, although PHIL 191 would be helpful.

**PHIL 198 Introduction to Business Ethics** 3 s.h.

This course explores major ethical issues facing the business community today, such as bribery, whistle blowing, environmentalism, employee rights, businesses' social responsibility, affirmative action programs and the political responsibility of multinationals. The emphasis of this course will be on teaching students to use critical thinking to arrive at informed moral judgments. Home study.

**PHIL 290 Biomedical Ethics 3 s.h.**

This course analyzes the ethical dimension of some of the following topics: the concepts of health and disease, concepts of mental health, concepts of personhood, patients' rights and professional responsibilities, the disclosure of information, abortion, genetics, fetal research and human reproduction, euthanasia and the definition of death, ethical issues in human experimentation, and the allocation of medical resources.

**PHIL 293 Understanding Religious Life 3 s.h.**

This course presents the various modes or means that individuals and groups use to transform their lives from a problematic state of existence toward ultimate reality or values. The problems of existence, the means of transformation, and the nature of ultimate reality or values are understood differently by diverse individuals and groups, yet the transformative process itself is central to any expression of religious life. A specific means of transformation is usually found in more than one traditional religion; therefore, this is not a course in comparative religion, although the elements of the world's major religions permeate the presentation.

**Photography**

**COPH 191 Basic Photography 3 s.h. (2 + 2)**

Students learn how to use the camera, study its individual media quality and participate in related laboratory experiences. Portfolios of photography are produced by the students. Code 3 course fee. See relevant section for additional costs.

**COPH 197 Experimental Photography I 3 s.h. (2 + 2)**

To acquaint the student with a series of camera and darkroom techniques, to explore, manipulate and abstract the photographic image. Included is the tone line image, local print coloration, posterization, solarization, the photogram, reticulation as well as the use of specialized camera and picture-taking techniques. Students will learn these unique techniques in relation to the still black and white photograph and participate in related laboratory experiences. Portfolio of photographic work are produced by the students in the class. Limited enrollment. Prerequisite or corequisite: COPH 191 or equivalent or permission of the instructor. Code 3 course fee. See relevant section for additional course costs. (Offered in Spring only)

**COPH 198 Intermediate Photography 3 s.h. (2 + 2)**

This course is a continuation of Basic Photography COPH 191. Students will learn advanced techniques in camera handling and picture taking while exploring sophisticated methods in monochrome continuous-tone printing. The course will further encourage the development of creative expression within the student. Using the photography medium, the student will explore the photographic image as design, communication, advertising and art. Portfolios of enlarged black and white continuous-tone prints are produced by each student. Prerequisite: COPH 191. Code 3 course fee. See relevant section for additional costs.

**COPH 217 Photojournalism and Picture Editing 3 s.h. (2 + 2)**

Photojournalism is designed to teach the principles of photographic reportage and documentation. Students will be given a historic background of photojournalism with special emphasis on the impact of photography on the reporting of world, state, and local events. Students will further develop basic skills in researching information pertaining to a current news event, collecting information for appropriate caption writing, picture editing and editorial layout. The course stresses the ability to reach the proper location, take the photographs, process the film, and produce the print within time constraints which duplicate the expected performance on a daily newspaper, magazine or broader media coverage and print publication. A 35mm camera with built-in metering system or a hand-held light meter is required for this course. An electronic flash unit for the camera is also required. Code 2 course fee.

**COPH 290 Electronic Still Photography 3 s.h. (2+2)**

This course is intended to introduce the student to the use of various types of electronic digital cameras and related photographic equipment. In addition, students will learn to download the images for computer enhancement. Emphasis will be placed on both field and studio work. Prerequisite: COPH 191 and COCG 160 or permission of the instructor. Code 3 course fee.

**Physics**

**PHYS 171 Physics I 4 s.h. (3 + 2)**

Formerly SC 171 – A laboratory course dealing with the major areas of physics. These include measurement, mechanics, heat and sound. The basic principles of these topics are studied in terms of their applications. High school physics not required. Prerequisite: High school algebra II or MATH 165. Code 3 course fee.

**PHYS 172 Physics II 4 s.h. (3 + 2)**

Formerly SC 172 – Continuation of PHYS 171. This includes a study of electricity and magnetism, sound, light and modern physics. Prerequisite: PHYS 171. Code 3 course fee.

**PHYS 271 General Physics I 4 s.h. (3 + 2)**

Formerly SC 271 – Deals with composition of vectors, equilibrium, moments, Newton's laws, work and energy. Required for engineers and physics majors. Prerequisites: Four years high school mathematics, one year physics. Corequisite: MATH 265. Code 3 course fee.

**PHYS 272 General Physics II 4 s.h. (3 + 2)**

Formerly SC 272 – A continuation of PHYS 271, dealing with elasticity, harmonic motion, wave motion, the laws of thermodynamics, the kinetic theory. Prerequisites: PHYS 271, MATH 265. Corequisite: MATH 266. Code 3 course fee.

**PHYS 273 General Physics III 4 s.h. (3 + 2)**

Formerly SC 273 – Continuation of PHYS 272. Concerned with electric fields, potential capacitance, AC and DC currents, magnetic field and electromagnetic waves. Prerequisites: PHYS 272, MATH 265 and MATH 266. Code 3 course fee.

**PHYS 274 General Physics IV 4 s.h. (3 + 2)**

Formerly SC 274 – Continuation of PHYS 273. Introduces physical and geometric optics, the quantum theory, atomic models, relativity, radioactivity and nuclear energy. Prerequisite: PHYS 273. Code 3 course fee.

**Political Science**

- POLI 183/185/261/262/268 are writing intensive courses. Students will be expected to use the skills they have acquired or are acquiring in their college English classes.
- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.

**POLI 183 Introduction to Political Science 3 s.h.**

Formerly SS 183 – A survey of the foundations of political theory and its relationship to government, political parties and pressure groups and modern political thought.

**POLI 185 Principles of Public Administration 3 s.h.**

Formerly SS 185 – A survey of the principle philosophic and operational factors of public administration with emphasis on the major concepts involved in the science and art of government. The course considers such topics as organizational theory and practice, decision making, executive leadership and the political aspects of administration.

**POLI 261 American Federal Government 3 s.h.**

Formerly SS 261 – A survey of the origins and development of our national government and political system in theory and practice. Code 2 course fee applies to home study only.

**POLI 262 American State and Local Government 3 s.h.**

Formerly SS 262 – A study of the common features of state and local governments in the United States under existing and ideal conditions. Some attention is given to New Jersey and local areas.

**POLI 263 Introduction to International Relations 3 s.h.**

Formerly SS 263 – Students will examine the international political system, analyze the causes of war and the various approaches to world peace through a study of balance of power theories, disarmament, diplomacy, and international organizations. Also, students will examine economic forms of power and the increasing importance of international political economy. This course fulfills the Liberal Arts Diversity Requirement.

**POLI 268 Women and American Politics 3 s.h.**

The course examines the role of women in American politics in relation to: (1) gender and the history of American politics, (2) the emergence of women as political players as voters, candidates and officeholders and (3) public policies that directly effect women. This course fulfills the Liberal Arts Diversity Requirement.

**Psychology**

- Many Psychology courses are writing intensive. Students will be expected to use the skills they have acquired or are acquiring in college English classes.
- Students will be expected to demonstrate proficiency in information literacy. Internet access may be required.
- Some Psychology classes have a required field visit and /or service learning component.
- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.

**PSYC 171 Child Rearing 3 s.h.**

Formerly SS 171 – This is a course about living with children in the day-to-day world. It will help you communicate more effectively with your children and learn to present discipline in a context of love and support. Creating an atmosphere of cooperation is therapeutic for the whole family. Issues involving divorce, single parenting and blended families will be explored, as well as some typical problems in infancy, toddlerhood, preschool, school years and adolescence.

**PSYC 172 General Psychology 3 s.h.**

Formerly SS 172 – A study of the behavior of the individual in terms of maturation, learning, emotion, motivation, perception, thinking and individual differences; basic to all other courses in psychology. Code 2 course fee (for Home Study only).

**PSYC 173 Child Psychology 3 s.h.**

Formerly SS 173 – The emphasis of the course will be the intellectual, emotional, social and physiological development of the human being. Child development will be followed from the preconception period through young adulthood. Research methods will be stressed and reading from anthropology, psychology, genetics, sociology and physiology will be required. Prerequisite: PSYC 172 or equivalent.

**PSYC 174 Personality Theory 3 s.h.**

Formerly SS 174 – A study of adult personality focusing on representative theories from the major schools of personality theory (psychoanalytic, social learning, humanistic, and cognitive) and methods of studying personality (e.g., case studies, personality tests, empirical research, etc.). Prerequisite: PSYC 172.

**PSYC 175 Cross Cultural Psychology 3 s.h.**

This course deals with a cross-cultural study of human behavior based on research findings of the world's culturally heterogeneous population. The goal is to discover how culture and individual behaviors are related, based on the more than 200 definitions of culture in the social science literature. Prerequisite: PSYC 172 or its equivalent. This course fulfills the Liberal Arts Diversity Requirement.

**PSYC 270 Psychology of Gender 3 s.h.**

Formerly SS 270 – This course will present current theory and research on gender differences in the physiological, cognitive and social domains. An analysis of the implications for developmental patterns, role evolution and differential treatment of men and women will include consideration of the social and biological roots of gender and the contribution of both individual and gender differences. Prerequisite: PSYC 172. This course fulfills the Liberal Arts Diversity Requirement.

**PSYC 271 Abnormal Psychology 3 s.h.**

Formerly SS 271 – The study of abnormal behavior from five different major theoretical approaches: physiological, psychoanalytic, behavioral, cognitive and humanistic/existential. Students will learn the descriptions (symptoms), causes (etiology) and various types of treatments of disorders. Prerequisite: PSYC 172.

**PSYC 273 Adolescent Psychology 3 s.h.**

Formerly SS 273 – This course presents an in-depth study of human development between the ages 11 and 25, stressing growth in cognitive and personality processes and the social changes experienced by adolescents. Students will also explore the diversity of adolescence in individual or group projects. Prerequisite: PSYC 172.

**PSYC 274 Social Psychology 3 s.h.**

Formerly SS 274 – A study of how social forces impact on individual attitudes and behavior. The course will include topics such as social cognition and attribution theory, interpersonal relationships, group dynamics, social influence, and prejudice. Research and methodology will be stressed. Prerequisite: PSYC 172.

**PSYC 275 Educational Psychology 3 s.h.**

Formerly SS 275 – A course designed for social science and education students interested in educational processes. The course investigates research findings, theories, concepts and principles as they apply to various learning situations. Ten hours of classroom observation of students pre-school through secondary school age is a requirement of the course. Prerequisite: PSYC 172 or equivalent.

**PSYC 276 Adult Psychology 3 s.h.**

Formerly SS 276 – This course will present a life span approach to adult development. It will begin with a consideration of the criteria for maturity and the transition from adolescence to young adulthood. Physical, cognitive, personality and social developmental changes in young adulthood, middle age and old age will be examined. This course will also focus on problems of special interest at each stage. Prerequisite: PSYC 172.

**Recreation****HHPR 231 Camping and Recreation Leadership 2 s.h. (2 + 0)**

Formerly PE 231 – An elective course designed for students and adults of the community who wish to develop leadership techniques and practices for recreation centers, camping, playgrounds and other recreation programs. A study of the various kinds of leadership exerted by professional and semi-professional workers. Included will be limited study of the areas of philosophy, program planning and organization and administration. Code 2 course fee.

**Science****SCIE 101 Principles of Physical Science 4 s.h. (3 + 2)**

Formerly SC 113 – A one-semester laboratory course designed for students without high school science, or who have graduated from high school ten or more years ago. Integrates the physical sciences of astronomy, chemistry, geology and physics. Covering such topics as the universe, solar system, energy, atomic-molecular theory, heat, moments, vectors and mechanics. An understanding of the effects the physical sciences have had on history and civilization. For students without high school science. With the exception of BIOL 114, this course may not be taken concurrently with or after a science course with a higher course number. Prerequisite: high school algebra or MATH 011. Code 3 course fee.

**SCIE 102 Physical Geology 4 s.h. (3+2)**

Formerly SC 158 – This course will explore the geological processes that form and continue to shape the natural aspects of the earth. Using the theory of plate tectonics, the formation of volcanoes, continents and sea floor will be studied. Other topics will include: glaciation, earthquakes, erosion, formation of minerals, mass wasting and ground water. Environmental issues as they relate to geological structures and our use of resources will be discussed. Laboratory exercises demonstrating these concepts will be used to reinforce the theory. Code 2 course fee.

**SCIE 103 Introduction to Astronomy 4 s.h. (3 + 2)**

Formerly SC 202 – A course concerned with the investigative tools of the astronomer and the implications of modern astronomical findings. The course begins by examining the nature of the scientific method and by applying that method to a number of key problems from the history of astronomy. It then proceeds to cover the most recent findings as to the nature, origin, and evolution of the planets, stars, galaxies, and the Universe itself. Laboratory work includes observations with the unaided eye and the telescope, and analysis of more complex observations. Prerequisite: SCIE 101 or Equivalent or approval of instructor. Code 2 course fee.

**SCIE 104 Celestial Navigation 4 s.h. (3 + 2)**

Formerly SC 241 – An introduction to celestial navigation, including basic Earth-sky relationships, identification of navigation stars, use of a sextant, and use of the Nautical Almanac and standard sight reduction tables to obtain a navigational fix. Course includes classroom instruction and practical exercises in the planetarium and in the field. Prerequisite: MATH 165 or Equivalent and approval of instructor. Code 2 course fee.

**SCIE 105 Forensic Science 4 s.h. (3 + 2)**

Formerly SC 151 – A laboratory approach to the understanding of the importance of securing evidence which shall be physical, chemical or biological in nature. The methods of collection and evaluation, utilizing laboratory instrumentation will be involved. To include field activities. Code 3 course fee.

**Sociology**

- All 200 level Sociology courses are writing intensive. Students will be expected to use the skills they have acquired or are acquiring in college English classes.
- Some Sociology classes have a required service learning component.
- Some sections of these classes are available as Home Study or Distance Learning (internet) courses.

**SOCI 181 Introduction to Sociology 3 s.h.**

Formerly SS 181 – This course presents the fundamental concepts, perspectives, and methods of sociology. Course topics include culture and society, socialization and the life cycle, social interaction and everyday life, social power and inequality, work and economic life, marriage and the family, gender and sexuality, social change and social movements, and the natural environment and our ecological fate.

**SOCI 182 Death & Dying: Challenge and Change 3 s.h.**

Formerly SS 182 – This course is designed to examine the phenomena of death and dying from the historical, cultural, psychological and ethical perspectives. It investigates the research and literature regarding attitudes toward death, past and present, changing definitions of death and their ethical implications, the process of grief and grief therapy and new ways of dealing with the dying and with death.

**SOCI 230 Women in Society: Social Issues 3 s.h.**

Formerly SS 230 – This course examines women's place in society from historical, legal and social perspectives. Included for consideration are theories of social change, recent laws relating to women, contemporary issues (such as domestic violence, employment, education, politics, sexual assault) and agencies for change.

**SOCI 231 Social Problems 3 s.h.**

Formerly SS 231 – This course explores the ways that some situations are defined as social problems, and it looks at some of the consequences of those definitions. Students will identify and analyze a wide range of social problems, and they will develop tentative solutions to those problems. A typical list of problems addressed would include power, economy, and social class, our natural environment, race, poverty, gender and sexuality, media, the criminal justice system, illness and health care, war, and other international conflicts. Prerequisite: SOCI 181.

**SOCI 238 Race and Ethnicity 3 s.h.**

Formerly SS 238 – This course will deal with the major concepts and issues of race and ethnic relations: race, racism, ethnicity, group inequality, prejudice, discrimination, assimilation and pluralism. The major focus will be on the United States, but the course will also examine other multi-ethnic societies as a way of situating American ethnic patterns within a comparative framework. Prerequisite: SOCI 181 or equivalent. This course fulfills the Liberal Arts Diversity Requirement.

**SOCI 282 Sociology of the Family 3 s.h.**

Formerly SS 282 – This course is an introduction to the sociological literature on the family. The course explores the changing expectations and practices of contemporary American family life, and it places these changes in historical, cultural, ethnic, and racial contexts. Course topics include the American tradition of family diversity, theories of the family, and globalization and American families. Prerequisite: PSYC 172 or SOCI 181.

**SOCI 284 Sociology of Sex & Gender 3 s.h.**

Formerly SS 284 – An exploration of the socially constructed category of gender and its relationship to the biological category of sex. The social, cultural, and political implications of gender in society are discussed. A wide range of topics are covered from gender, sexual identity, and intimacy to broader issues of social change such as gender equality and the politics of sex. Prerequisite: SOCI 181 or equivalent. This course fulfills the Liberal Arts Diversity Requirement.

**SOCI 285 Drugs and Society 3 s.h.**

Formerly SS 285 – An introduction to the social scientific literature on drugs, drug use and drug policy. The course seeks to dispel myths and misinformation surrounding drugs - from the definition of the term to the extent and nature of drug use in the United States. Topics of discussion will include the history of drug use and the role politics has played historically in the use and control of drugs worldwide. Proposed and implemented solutions and legislation will also be discussed. Prerequisites: SOCI 181 or PSYC 172 or permission of instructor.

**Spanish**

Students who have had four years of Spanish in high school should enroll in SPAN 251: Intermediate Spanish I.

Students who have had three years of Spanish in high school should enroll in SPAN 152: Elementary Spanish II.

Students who have had one year or less or no previous classes in Spanish should enroll in SPAN 151: Elementary Spanish I.

**SPAN 151 Elementary Spanish I 3 s.h.**

Formerly SP 151 – The conversational approach to language learning is used to develop the beginning skills. Students are provided with a basic vocabulary to enable them to enjoy simple conversational exchanges. Audio as well as possibly some computer-based material is used to reinforce and expand the skills program in the classroom. This course is for beginners or those with inadequate background for the SPAN 152 level course. Code 2 course fee.

**SPAN 152 Elementary Spanish II 3 s.h.**

Formerly SP 152 – Continuation of SPAN 151. Prerequisite: SPAN 151 or equivalent. Code 2 course fee.

**SPAN 153 Elementary Spanish for Teachers 3 s.h.**

Formerly SP 153 – This course is designed to help teachers respond to the goals of the New Jersey World Languages Content Standards K-12. It will focus on the development of basic language skills for beginners as well as the enhancement of language capabilities among those teachers with minimum Spanish language skills. The course will also address some areas of concern for beginning level teachers. Code 2 course fee.

**SPAN 251 Intermediate Spanish I 3 s.h.**

Formerly SP 251 – The conversational approach continues to be stressed. The course emphasizes the review of structure while providing the material to develop the four basic skills. Review is achieved by the use of drills, explanation, conversation, reading and graded writing activities. Culture and civilization are briefly explored through reading, lecture and non-print media. Prerequisite: SPAN 152 or equivalent. Code 2 course fee.

**SPAN 252 Intermediate Spanish II 3 s.h.**

Formerly SP 252 – SPAN 252 is the second level, second semester Spanish course. Study will include the development of the language skills through conversation, composition, and reading. Opportunities for advanced levels of communication are provided. Prerequisite: SPAN 251 or equivalent. Code 2 course fee.

**SPAN 253 Intermediate Spanish for Teachers 3 s.h.**

Formerly SP 253 – This course is designed to help teachers respond to the goals of the New Jersey World Languages Content Standards K-12. The course emphasizes the development of four basic language skills at an intermediate level. The course will also consider several teaching methodologies. Code 2 course fee.

**SPAN 255 Spanish Conversation I 3 s.h.**

Formerly SP 255 – The course is designed to develop conversational fluency in Spanish. The student will be assisted in expressing everyday experiences with ease. Knowledge of vocabulary and idioms will be expanded to encompass the practical situations of life. The course may be of special interest to the non-language major. Prerequisite: SPAN 152 or equivalent. Student must have an elementary conversational skill.

**SPAN 270 Topics in Hispanic Literature and/or Film 3 s.h.**

Formerly SP 270 – Students will have the opportunity in this course to read and discuss representative writers and works from different literary periods of Spanish and/or Latin-American tradition and/or the Hispanic writers in the United States. The writings will be studied in their cultural context as well as for elements of structure and style. (The course will be conducted in English). Prerequisite: ENGL 152 or consent of the instructor. Code 2 course fee.

**SPAN 280 Topics in Hispanic Cultures and Civilizations 3 s.h.**

Formerly SP 280 – This course is designed to offer a multiple perspective view of culture and civilization of Spain and the Americas before and after the conquest. This course is an introduction to the social, political, economic, and psychological forces that have shaped thousands of years old history and cultures of Spanish speaking people. We shall examine Spain's multicultural roots and the most pivotal aspects of peoples and cultures that existed before the conquest and those that evolved during the conquest of the "New" world utilizing film, music, history, architecture, and literature. This course is taught in English. Prerequisite: ENGL 152 or consent of the instructor. Code 2 course fee.

**SPAN 290 Topics in Spanish Language 3 s.h.**

Formerly SP 290 – The student will study the basics of morphology and syntax of Spanish to understand how the language works as a system. The student will learn to use descriptive models to analyze Spanish through assigned readings and problem solving. Segments of the course will cover features that differentiate Spanish from English. Important dialectical and historical variations will also be covered. Prerequisite: One or more SPAN 200 level courses, or permission of instructor. Code 2 course fee.

**Theatre****THTR 193 Introduction to Acting I 3 s.h.**

Formerly TH 193 – A basic course in improvisation and movement. Experiences and imagination in creating character and situations will be primary focus of this course. Code 2 course fee.

**THTR 194 Introduction to Acting II 3 s.h.**

Formerly TH 194 – A basic course in character and scene study. Student actors develop and create a wide variety of roles from current and classical drama. Emphasis is in gaining experience in becoming a character. Student actors analyze and act out scenes from a variety of plays establishing character relationships and physical action in production. Prerequisite: THTR 193 or consent of instructor. Code 2 course fee.

**THTR 195 Introduction to the Theatre 3 s.h.**

Formerly TH 195 – An introductory survey of historical and current theatrical practice. Code 2 course fee.

**THTR 196 Contemporary Theatre 3 s.h.**

Formerly TH 196 – A study of the current trends in the Broadway, off-Broadway, regional, European and underground theatre. This course is designed to help the student investigate, evaluate and appreciate these trends and to spur a desire for current theatre. Field trips to Broadway, off-Broadway, and off-off-Broadway productions will be an important part of the course.

**THTR 197 Stagecraft I 3 s.h. (2 + 2)**

Formerly TH 197 – This course covers basic theory and practice of building, painting, rigging and shifting scenery. For theatre majors only. Code 2 course fee.

**THTR 198 Stagecraft II 3 s.h. (2 + 2)**

Formerly TH 198 – This course covers basic theory and practice of lighting and its control, as well as lighting design. For theatre majors only. Code 2 course fee.

**THTR 199 Theatre Workshop 1 s.h.**

Formerly TH 199 – Special projects in theatre production. Flexible scheduling for day and evening. Assignments vary with theatre production schedule. May be taken four times for credit. Prerequisite: consent of instructor.

**THTR 290 Oral Interpretation 3 s.h.**

Formerly TH 290 – Fundamental principles of the performance of literature. Practice in analysis, phrasing, pacing, vocal techniques and bodily gestures. Projects include the study of prose, poetry, drama and related material. Recommended for drama, speech and broadcast journalism majors. Pre- or corequisite: Completion of freshman English requirement. Code 2 course fee.

**THTR 296 Theatre in London 3 s.h.**

Formerly TH 296 – Theatre in London is rich and varied. From the experimental Fringe (comparable to the U.S. Off-Broadway) on through to the major productions of The National Theatre and The Royal Shakespeare Company, the diversity and quality provide both a provoking and entertaining selection of one of the world's most exciting theatrical centers. Participants in the course will spend two weeks seeing and discussing plays presented by the National Theatre, The Royal Shakespeare Company (both at the new Barbican in London and at The Royal Shakespeare Theatre at Stratford-Upon-Avon) several West End theatres and some of the experimental companies on the Fringe. Participants will also meet in seminar and have the opportunity to discuss productions with guests from these companies: directors, actors, playwrights, designers.