Course Descriptions

Anthropology

FOR MORE INFORMATION, CONTACT THE SOCIAL SCIENCE DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A385, (315) 498-2301.

ANT 151 Physical Anthropology (3) General introduction with emphasis on causes and evolution of human similarities and differences - both culturally and biologically. Traces human evolution from primate beginnings to the development of cultural man (Homo sapiens).

ANT 152 Cultural Anthropology (3) An introduction to the cultural and social systems that humans have devised over time and space, using a comparative and evolutionary perspective. The focus will be on non-Western societies and their institutions, but some comparisons with modern, industrialized societies will be made.

ANT 160 Anthropology of Poverty (3) An interdisciplinary course which studies and distinguishes poverty, discrimination and inequality. Various kinds of inequality are examined: racial, ethnic, religious and systems of inequality based on sex/gender and age. Current statistics are presented and discussed. The history of stratification is examined. Reasons for continuing unequal and unjust systems are examined and analyzed. Other societies which are egalitarian and stratified are compared.

ANT 201 Anthropology of Marriage and Family (3) The course will examine marriage and family systems and structures worldwide, with an emphasis on the variations in pre-industrial and nonwestern societies. A comparison will be made with a case study of the U.S. family.

ANT 298 Select Topics: Anthropology (3) Subjects and material will vary with faculty interest and student demand. Credit hours and general course content will be established beforehand by the faculty member offering the course in consultation with other members of the department.

Architectural Technology

FOR MORE INFORMATION, CONTACT THE ARCHITECTURAL TECHNOLOGY DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 352, (315) 498-2687

ARH 110 Design Studio 1 (4) This is the first of two design studio foundation courses. Students explore elements of design and their relationships in two and three dimensions. Concepts include design vocabulary, design process, positive and negative space, hierarchy, proportion, symmetry, movement, rhythm, composition and unity. Architectural concepts of space and form, organizations, circulation, scale, structure, volume, fenestration and materials are introduced. Co-requisite: ARH/IND 120 and 154 or Permission of Instructor.

ARH 111 Design Studio 2 (4) This is the second of two design studio foundation courses. Students continue to explore elements of design and their relationships in two and three dimensions. Design concepts and process are discussed in detail. Architectural and interior design concepts of space, organizations, circulation, scale, structure, volume, massing, fenestration and materials are analyzed and discussed. Pre-requisite: ARH/IND 110. Co-requisite: ARH/IND 155 or Permission of Instructor.

ARH 120 Drafting Studio 1: Wood Frame (3) This course will develop basic architectural drafting skills (manual). The student will demonstrate an understanding of these skills through a development of a set of architectural drawings for a wood frame house or similar structure. Students will be required to buy basic architectural drafting equipment.

ARH 121 Drafting Studio 2: Masonry (3) Students apply and improve drafting skills by developing architectural working drawings for a small commercial building. Drawing documents include symbol conventions, plans, sections, elevations and details with the emphasis in masonry bearing-wall construction. Pre-requisite: ARH/IND 120. Co-requisite: ARH 142 and 143 or Permission of Instructor.

ARH 140 Wood Frame Construction (2) The characteristics, properties, performance and application of materials and systems used in wood frame construction.

ARH 142 Commercial Construction I (2) The first course in a two course sequence covering the materials and methods of contemporary commercial construction. This course focuses on sitework, foundations, concrete, concrete framing systems and masonry wall systems made of concrete, clay and stone. Pre-requisite: ARH/IND 140.
ARH 143 Commercial Construction II (2) This is the second course in a two course sequence covering the materials and methods of contemporary commercial construction. This course focuses on steel framing systems, moisture and thermal protection, glass and windows, cladding and curtainwalls, doors and hardware. Pre-requisite: ARH/IND 140.

ARH 154 Graphic Communications I (3) A free-hand drawing course designed to help the drafter/designer appreciate forms, texture, composition. Basic instruction in pencil techniques, perspective principles. A basic course designed to help the drafter/designer develop a style of architectural rendering. Co-requisite: ARH 120 or Permission of Department.

ARH 155 Graphic Communications II (3) A continuation of ARH 154 with emphasis on perspective drawing and introduction to shades and shadows. Various media are introduced including colored pencils and markers. Pre-requisite: ARH 154 or Permission of Department.

ARH 215 Design Studio 3 (4) This is the third design studio for Architecture. Students are expected to apply knowledge of design concepts and design process to “real-life” design problems. Programming, site analysis, context, fenestration, materials, structure and design development will be explored. Experimentation with space, form, light and proportion will be stressed. Significant trends in architecture and interior design, as practiced by recent leading architects and designers will be discussed. Pre-requisite: ARH/IND 111 or Permission of Instructor. Co-requisite: ARH 256 or Permission of Instructor.

ARH 216 Design Studio 4 (4) This is the fourth design studio for Architecture. This studio is a continuation of ARH 215 and will require in-depth analysis of design problems and higher expectations for design presentations. Students are expected to apply knowledge of design concepts and design process to “real-life” design problems. Pre-requisite: ARH 215.

ARH 222 Drafting Studio 3: Steel Frame (4) A concentrated continuation of ARH 121 with emphasis on the production of working drawings for steel and concrete frame multistory structures. Pre-requisite: ARH 121.

ARH 223 Drafting Studio 4: Team Approach (4) A concentration on sophisticated detailing employing the team approach. A team of students will produce a coordinated set of working drawings. The course will include a survey of mechanical, electrical HVAC and structural drawings. Pre-requisite: ARH 222.

ARH 230 History Western Architecture I (3) A survey of western architecture from the Greek civilization through the Baroque. Emphasis will be on the study of style by the comparative method, and on the relation between economic, religious, political and sociological conditions and the resultant building types, form and space of each given period and geographical region.

ARH 231 History Western Architecture II (3) The completion of the survey of western architecture covering the modern world from the termination of the Baroque period up through contemporary movements both in America and abroad. Emphasis will be on the study of style by the comparative method and on the relation between economic, religious, political and sociological conditions and the resultant building types, form and space of each given period and geographical region.

ARH 241 Mechanical and Electrical Systems: An Intro (3) Introductory survey of mechanical and electrical systems for buildings. Topics will include heating, ventilating, air conditioning (HVAC), plumbing, fire protection, electrical power and lighting systems for residential and commercial buildings. Auxiliary electrical systems such as security, public address, fire detection and alarm systems will be briefly discussed. Coordination of these systems with existing architectural plans will be emphasized. Instruction will involve case studies of pre-designed buildings. The primary method of learning and evaluation will be through student prepared drawings. Pre-requisite: ARH121.

ARH 242 Environmental Control Systems I (3) Understanding of man's comfort requirements and the design and selection criteria for heating, ventilating and air conditioning, as well as water supply and sanitation systems and acoustical treatments.

ARH 243 Environmental Control Systems II (3) Design and selection criteria for electrical systems, lighting and vertical transportation. Passive solar principles will be considered. Pre-requisite: ARH 242.

ARH 250 Principles of Structures (3) Structure as it affects design. A study of the loading of structures and the resistance to those loads as they apply to wood frame and steel frame structures.

ARH 256 Graphic Communications III (3) An advanced course in perspective rendering. Students are expected to apply perspective drawing skills acquired in ARH 155 to generate color renderings of building interiors and exteriors. Students taking Architectural Design I are encouraged to take this course concurrently and to use their design solutions as a base for required rendering projects in ARH 256. Pre-requisite: ARH 155 or Permission of Department.
ARH 261 Office Practice (3) A detailed survey of important aspects of professional practice with emphasis on legal instruments, specifications and cost estimating.

ARH 262 Building Codes (3) A detailed analysis of the New York State Building Code.

ARH 266 Independent Project 1-6

ARH 270 Digital Portfolio for Architecture and Interior Design (1) A hands-on course to create a digital portfolio. Students will utilize digital cameras, scanners, image editing software and CD recording software and hardware to produce a PowerPoint® presentation on an autorun CD. Basic computer literacy is required. Pre-requisite: ARH or IND major, completed 30 credits, or permission of the instructor.

ARH 271 Architectural CAD I (3) An introductory course in Architectural CAD (Computer Aided Drafting) utilizing 3-D software (including AutoCAD). Topics include basic drawing, editing and system commands with direct hands-on experience. Professional details and drawings will provide the basis for graphic problems and solutions. Pre-requisite: ARH/IND 120 or Permission of Department.

ARH 272 Architectural CAD II (3) An intermediate level course in Architectural CAD (Computer Aided Drafting) utilizing 2-1/2 and 3-D software (AutoCAD). Topics include intermediate drawing, editing and system commands with direct hands-on experience, file management and multipen plotting. Professional details and drawings will provide the basis for graphic problems and solutions. Pre-requisite: ARH 271 and ARH 222 (grades of B or better or Permission of Department).

ART 101 Drawing I (3) Concentrates on developing basic drawing skills including perspective, proportion, tone and composition. Basic mediums such as charcoal, conte, graphite, ink wash, etc. will be used. Subject matter varies and may include still-life, landscape, architectural and figurative elements. Pre-requisite: Art majors only or Permission of Instructor.

ART 102 Drawing II (3) Refinement of the basic skills learned in Drawing I. Emphasis is placed upon technical proficiency and in-depth exploration of the basic elements of drawing and design. Subject matter will be expanded to include the nude model. Pre-requisite: Art 101. Art majors only.

ART 103 Design I (3) A survey and application of the basic principles of 2-dimensional design and composition and an introduction to the design process and its use in visual problem solving. Students will also receive training in the use of drafting tools, measuring systems and methods of producing finished work. Pre-requisite: Art majors only or Permission of Instructor.

ART 104 Design II (3) A continuation and advanced application of the basic 2-dimensional design concepts and processes begun in ART 103. An introduction to basic 3-dimensional concepts. The course includes a cursory examination of career paths in the field of design and important historical design movements. Pre-requisite: ART 103 or Permission of Instructor.

ART 105 History of Art I (3) Survey of painting, sculpture and architecture from prehistoric times through the early Renaissance, with a consideration of major societal issues and ideas which may have influenced the development of forms and techniques in the visual arts.

ART 106 History of Art II (3) Continuation of ART 105, from the high Renaissance to the present.

ART 109 Principles of Drawing (3) Introductory course for non-art majors. An exploratory course that analyzes the components of drawing (line, shape, form, value, transition, texture, tension, balance, composition, etc.) Subject matter varies and may include still-life, landscape, architectural and figurative elements.


ART-152 Color and Concept Development (3) This course is an introduction to the visual thought processes used in the development of creative concepts and ideas, as well as an introduction to color theory and the emotional and spatial behavior of color. Focus is on the conceptual, verbal and technical skills needed to effectively communicate visual ideas. Pre-requisite: ART Major or Permission of Instructor.

ART 201 Advanced Drawing/Painting I (3) Advanced studio experience in drawing and the use of a variety of media. Emphasis is on improving technical skills, compositional sophistication and experimentation with new or multimedia techniques. Individual creativity is encouraged through exploration of a variety of subject possibilities. Pre-requisite: ART 102 or Permission of Instructor.
ART 202 Advanced Drawing/Painting II (3) Advanced studio experience in drawing and the use of a variety of media. A continuation of Art 201, with a greater emphasis on self-directed individual creative development. The students will be assigned a term project or series of related works to be produced in consultation with the instructor. Further in-depth exploration and refinement of drawing technique and compositional ability will be stressed. Students will participate in group critiques with other students and guest faculty. Pre-requisite: ART 201.

ART 203 Typography and Layout (3) Basic principles of typographic design and typesetting will be studied along with letterforms, their development and present trends. How to select fonts and create a hierarchy of projects will demonstrate how visual layout and typographic composition can be used to communicate ideas. Requirement for Graphic Design majors. Pre-requisite: Art 142 or Permission of Instructor.

ART 204 Intermediate Computer Graphics (3) An intermediate-level course for students to develop the skills needed to create and manipulate images. The creative process and industry standard software functions are used to develop and edit images to communicate ideas graphically. Requirement for Graphic Design majors. Pre-requisite: Art 142.

ART 205 Figure Drawing I (3) An exploratory drawing course concerned with the human form including the nude model. Emphasis will include the techniques of drawing, use of mediums and the awareness of anatomical correctness. Skeletal and muscular construction will also be introduced. Pre-requisite: ART 101/ART 102 or Permission of Instructor.

ART 206 Figure Drawing II (3) Continuation of Figure Drawing I, with further emphasis on anatomical studies. In addition, the syllabus will stress figure work in the area of design (figures in environments, in landscapes, and as part of graphic composition); and in anatomy, a more in-depth concern with spatial movements, volume and structures. Pre-requisite: ART 205.

ART 211 Introduction to Ceramic Sculpture (3) An introduction to 3-dimensional space, form, scale, surface and image as they relate to the specialty of ceramic sculpture. Related clay forming and firing techniques will be covered as well as historical and contemporary trends. Pre-requisite: ART 219 or Permission of Instructor.

ART 212 Ceramics Sculpture II (3) An advanced ceramic sculpture course, drawing on the skills, techniques and understandings explored in ART 211. ART 212 will provide the student with the opportunity to produce a body of complex, related ceramic work. Pre-requisite: ART 211 or Permission of Instructor.

ART 213 Painting I (3) A studio course concerned with the study of acrylic and/or oil painting medium and its applications to the various techniques of traditional and non-traditional painting. All techniques discussed and demonstrated will be applied to concentrated studio projects. Pre-requisite: ART 101/ART 102 or Permission of Instructor.

ART 214 Painting II (3) Advanced course work in painting with concentrated studio projects and problems involving lighting, spatial and environmental concepts. Students should develop technical understanding of the various components of painting, space, volume and value, as well as various painting media such as oil, acrylic, watercolor, gauche, encaustic and graphic design media. Pre-requisite: ART 213 or Permission of Instructor.

ART 218 Art in Animation (3) An introduction to the history of animation and hands-on studio experience making a short animated presentation. Students will learn the artistic skills required for computer animation techniques using current animation software. Completion of Art 142 and 204 are recommended before taking this course.

ART 219 Ceramics I (3) An introduction to handbuilding techniques; the exploration of clay as an expressive material through various forming and decorating methods.

ART 220 Ceramics II (3) A continuing exploration of handbuilding and decorating techniques, as well as an introduction to throwing on the potter’s wheel. Pre-requisite: ART 219 or Permission of Instructor.

ART 221 Modern Art and Its Backgrounds (3) A semester-long survey of the forms and techniques of late nineteenth and early twentieth century visual arts, with an examination of their relationships to one another, to past art and to some of the major issues and ideas of their times.

ART 224 Design for Multimedia (3) This course focuses on the aesthetic and organizational skills required for designing interactive multimedia products. The course content includes the integration of the various elements of text, artwork, photographs, sound and motion. Topics of discussion will include user interface design, interactivity, information mapping and intuitive navigation design. Pre-requisite: ART 142 or Permission of Instructor.

ART 225 Watercolor (3) A studio course exploring traditional and non-traditional use of watercolor. Subject matter may include still-life, landscape, the nude figure. Pre-requisite: Art majors or Permission of Instructor.
ART 226 Ceramic Processes I (3) An in-depth ceramics course with emphasis on exploring a variety of production techniques. Pottery processes covered include wheel throwing, slab and coil building, mold design, glaze and clay chemistry, primitive firing and reduction firing. Pre-requisite: Art major or Permission of Instructor.

ART 227 Ceramic Processes II (3) Studio sequel to ART 226. Emphasis will shift to the production of a portfolio of related art work making use of previously acquired skills. Pre-requisite: ART 226 or Permission of Instructor.

ART 240 Advanced Graphic Design (3) Practical and theoretical design concepts and their application to advanced communications problems and multi-piece campaigns will be studied. Projects will emphasize concept development and portfolio preparation. Required for Graphic Design majors. Pre-requisite: ART 142 or Permission of Instructor.

ART 244 Visual Design for the Web (3) Visual design for the Web examines the unique opportunities and capabilities of digital electronic art. Emphasis will be placed on the organization and the communication of visual information needed for Web site design. Students will learn how to create and maximize visual assets for Web design. Pre-requisite: ART 142 or Permission of Instructor.

ART 290 History of Photography (3) A survey of the history of photography with concentration on selected major figures in photography from the nineteenth and twentieth centuries. Class activities will include instructor's presentations, student reports, field trips, guest presentations and discussions based upon those activities and upon assigned reading in the history of photography.

ART 292 Introduction to Haudenosaunee Art (3) Introduction to a variety of traditional Haudenosaunee arts and crafts by Native American artist/instructors. The course will be presented by one to three instructors and will focus on selected traditional Native-American media. Examples include: sketching/painting, stone sculpture and metalwork. Students will create their own pieces, which will reflect their basic understanding of traditional Haudenosaunee tools, media and subject matter.

Automotive Technology

FOR MORE INFORMATION, CONTACT THE AUTOMOTIVE TECHNOLOGY DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W176, (315) 498-7200

ATC 103 Auto Fundamentals and Lab (4) Provides a foundation for students entering the automotive service field. It prepares the student with shop and tool safety, basic automotive maintenance procedures and pre-delivery inspection procedures. The internal combustion engine and related components are introduced in this course.

ATC 105 Auto Fundamentals and Lab (4) An introductory course applied to the automobile. DC and AC circuits including series, parallel and series parallel are investigated. Concepts of magnetism and inductance are studied and applied to starting and charging systems. Laboratory emphasis is on basic electronic test equipment for diagnosing basic vehicle accessories and systems. Three class hours and a three-hour lab. Pre-requisite: MAT 094 or Permission of Instructor.

ATC 116 Auto Electronics and Lab (4) An introductory course in semiconductor devices, circuits, digital concepts and microprocessors applicable to the modern automotive system. Laboratory emphasis is on test instrumentation and the application of troubleshooting techniques. Three class hours and a three-hour lab. Pre-requisite: MAT 094 or Permission of Instructor.

ATC 119 Cooperative Education I (3) This course is designed to provide work experience directly related to the student's field of study. A learning contract, containing specific educational objectives, is developed between the student, the chairperson of Automotive Technology and the employer. There is a 120-hour minimum employment requirement in the student's cooperative employment experience along with a course component. Tasks include basic automotive service activities involving mechanical and electrical systems. The student is required to keep a daily journal of activities performed and periodic evaluations will be conducted by department faculty. Students will have assistance in the co-op placement, however, the ultimate responsibility for obtaining a placement rests with the student. The Automotive chairperson must grant prior approval for the cooperative work experience, which must be directly related to the student's curriculum. The work experience cannot be used to satisfy the require-
ments of another course. No experiential credit based upon past work experience will be awarded for this course. A letter grade will be assigned. Prerequisites: ATC 103, ATC 115.

ATC 207 Chassis Fundamentals and Lab (5) This course examines the design, construction and operation of basic vehicular suspension systems, braking systems, alignment geometry, wheel and tire fundamentals and steering systems. The emphasis is on service and diagnostic procedures are discussed in detail. Laboratory exercises consist of wheel balancing and alignment, proper brake system service practices, suspension component diagnosis and replacement, anti-lock troubleshooting techniques and related chassis services. Rotor and drum machining techniques are explored in detail. Four class hours and a three-hour lab.

ATC 222 Drivelines and Geartrains and Lab (5) A thorough examination of manual and automatic transmissions/transaxles. Clutch operations, drivelines and differentials are addressed. Detailed power flow analysis for manual and automatic geartrains is provided in lecture with practical applications derived from laboratory exercises. Vehicle manufacturer service and maintenance procedures are investigated in lab activities. Four class hours and a three-hour lab. Pre-requisite: ATC 243 or Permission of Instructor.

ATC 243 Advanced Engine Performance and Lab (4) Modern engine control systems are discussed. Ignition systems and related diagnostics with an emphasis on computer-controlled fuel management are examined. Laboratory topics include gas analyzers, oscilloscopes and scanning devices. Three class hours and a three-hour lab. Pre-requisite: ATC 142 or Permission of Instructor.

ATC 271 Climate Control Systems and Lab (3) Fundamentals of refrigeration and heating are analytically discussed. Concepts of modern electronic air temperature control systems are developed in the lecture. Laboratory activities focus upon service and diagnostic methods. Proper evacuation and recharging techniques applicable to current EPA standards are developed. Two class hours and a three-hour lab. Pre-requisite: ATC 116 or Permission of Instructor.

ATC 290 Cooperative Education II (3) This course is designed to provide work experience directly related to the student's field of study. A learning contract, containing specific educational objectives, is developed between the student, the chairperson of Automotive Technology and the employer. There is a 120-hour minimum employment requirement in the student's cooperative employment experience along with a course component. Tasks include advanced automotive service activities involving electronic diagnostics, engine performance and mechanical diagnosis and repair. The student is required to keep a daily journal of activities performed and periodic evaluations will be conducted by department faculty. Students will have assistance in the co-op placement; however, the ultimate responsibility for obtaining a placement rests with the student. The Automotive chairperson must grant prior approval for the cooperative work experience, which must be directly related to the student's curriculum. The work experience cannot be used to satisfy the requirements of another course. No experiential credit based upon past work experience will be awarded for this course. A letter grade will be assigned.

Banking
FOR MORE INFORMATION, CONTACT THE BUSINESS ADMINISTRATION DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W324, (315) 498-2435.

BIR 101 Principles of Banking (3) Provides a comprehensive introduction to nearly every aspect of banking, including: history and evolution of banking, documents and language, bank relationships with depositors, the deposit function, check processing, bank bookkeeping, loans and investments, trust department services, specialized services and bank regulations and examination.

Biology
FOR MORE INFORMATION, CONTACT THE BIOLOGY DEPARTMENT IN FERRANTE HALL, ROOM F251, (315) 498-2411.

BIO 101 General Biology I (4) Establishes the molecular and cellular basis of life, including the principles of inheritance, in an evolutionary context. The basic concepts are applied to a survey of one-celled forms of life, fungi and plants, and to the organismal biology of plants. Three class hours and two lab hours per week. Recommended preparation: high school biology and chemistry. Not open to students with credit in BIO 121.

BIO 102 General Biology II (4) Includes a review of the diversity of life, a survey of animal types and of the organismal biology of animals, and an examination of the interactions of organisms with each other and with their environment, all from an evolutionary perspective. Laboratory exercises may include dissection of preserved specimens. Three lecture hours and two lab hours per week. This course assumes a basic knowledge of cell structure and function and of the chemical organization of living things. Recommended preparations: BIO 101 or BIO 121. The combination BIO 121 and BIO 102 does not count as a sequence for the Math-Science degree.
BIO 105 Exploring Biology (3) This course provides nonscience students with an understanding and analysis of essential biological concepts. Biological literacy is a critical component of informed citizenship. Discussions of biological issues such as the Human Genome Project, DNA Fingerprinting, the cloning of organisms and AIDS are incorporated into the course. Three class hours. Not open to students with credit in BIO 101 or BIO 121. Does not fulfill the science requirement for Math - Science and Computer Science students. Pre-requisite.

BIO-105L - Laboratory in Basic Biology (1) Optional laboratory for BIO-105. May ONLY be taken concurrently with BIO 105 or Permission of Instructor. Co-requisite: BIO-105.

BIO 106 Human Biology (4) This one-semester course provides basic knowledge of the major organ systems of human beings. Emphasis is on how the body functions normally. It is intended for non-science majors and is inappropriate for students preparing for Nursing, Respiratory Care, Surgical Technology and Physical Therapy Assistant. Does not fulfill the science requirement for Math - Science and Computer Science students. Three class hours, two laboratory hours. Not open to students with credit in BIO 102 or BIO 107.

BIO 107 Anatomy and Physiology (4) The study of the various systems of the human body, their structure and functions. Topics include: cellular structure, chemistry and physiology, introductory histology, as well as the skeletal, muscular, respiratory and urogenital systems. Three class hours and two laboratory hours per week. The cat is the primary dissection specimen in the laboratory. No Pre-requisites.

BIO 108 Anatomy and Physiology (4) The study of the various systems of the human body, their structure and functions. Topics include: the nervous, circulatory, digestive, endocrine, and reproductive systems. Three class hours and two laboratory hours per week. The cat is the primary dissection specimen in the laboratory. Pre-requisite: BIO 107.

BIO 121 Principles of Biology (4) This introductory biology course deals with themes of central importance to an understanding of contemporary biology. Topics include the molecular and cellular basis of life, energy flow in biological systems, gene expression and regulation, inheritance, development and DNA technology. The course is designed to provide students with an understanding of recent advances in applied biology, as well as to prepare students for additional courses in biology. Not open to students with credit for BIO 101.

BIO 150 Intro to Microbes (3) A general survey course of the science of microbiology. The course is intended to give general exposure to the nature of microorganisms and their impact and importance to the average citizen. Areas of medical microbiology, food and dairy microbiology, and waste water management are covered. No Pre-requisite.

BIO 155 Micro for Surg Tech (1) This course provides an introduction to Microbiology, emphasizing aspects related to safe practice in the surgical field. The infectious process, infection control and the role of the immune system in health and disease will be covered, in addition to the structure and properties of bacteria, fungi, viruses and other microbes. Open only to students in the SGT program. No prerequisite; co-requisite requirement: SGT 101-102-103.

BIO 191 Pathophysiology (3) This course is designed to study important diseases affecting major body systems and the pathology associated with each. The etiology of these diseases also will be considered as well as the principal diagnostic test and treatments used in their detection and control. Open only to students in the MRT program. Pre-requisites: BIO 107 and 108 Anatomy and Physiology.

BIO 205 General Microbiology (4) A survey of the microbial life with special emphasis on those organisms of clinical interest. Laboratory exercises emphasize the isolation, identification, and control of microorganisms. Three class hours and two laboratory hours. Pre-requisite: BIO 101 or BIO 107 or BIO 121 or Permission of Instructor. Not recommended for students with credit in BIO-150.

BIO 208 General Ecology (3) A study of the principles of energy and material flow through ecosystems; includes the introduction of population dynamics and community organization. Three class hours. Pre-requisite: high school biology or equivalent.

BIO 210 Ecology Lab (1) A field and laboratory approach to ecological principles including energy and chemical flow through terrestrial and aquatic system. Optional when taking BIO 208 or 209.

BIO 215 Tropical Marine Ecology (4) Survey of concepts in marine biology with emphasis on tropical marine ecosystems. Laboratory requirements are met by a week of field study at Roatan Institute of Marine Science on the island of Roatan, Honduras. Field study will include exploration of a local coral reef ecosystem, invertebrate and vertebrate identification and natural history. A dolphin specialty segment will introduce dolphin anatomy, physiology, cognition, communication and behavior. Students will participate in dolphin swims, field observations and training sessions. An additional fee will be required for the week at the Roatan Institute of Marine Science in the Caribbean. Pre-requisites: BIO 101 or BIO 102 or Permission of Instructor.
BIO 220 The Biology of Aids (3) Starting where introductory biology classes leave off, this class explores AIDS and the pathology of HIV, including the structure and origin of the virus, mechanism of viral replication, routes of transmission and consequences of infection. Methods of prevention and treatment will be discussed, including the biomedical challenges to effective treatment. A review of current testing methods and the prevalence of the disease in various populations will also be discussed, along with the role of the immune system in disease control and progression. This class is appropriate for all students, including non-science majors and students entering the health professions. No laboratory. Prerequisite: BIO 101 or BIO 105, or BIO 107 or BIO 121.

Business

FOR MORE INFORMATION ABOUT BUSINESS COURSES, CONTACT THE BUSINESS ADMINISTRATION DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W324, (315) 498-2435.

BUS 100 Computer Keyboarding (1) Students will learn the basic skill of “touch” keyboarding on computer keyboards in order to input information into a computer system. Students will learn alphabetic, numeric, and computer function keys. Three laboratory hours per week. Not open to students in Office Technology: Administrative Assistant, and Office Technologies: certificate or students with previous credit for BOT 153.

BUS 101 Contemporary Business (3) An introductory course designed to give the student an overview of the impact of business on society. The course is intended to aid the student in obtaining a clear understanding of the way in which contemporary business functions through the interrelationships of marketing, management and finance. Not open to students with previous credit in BUS 121 and/or BUS 230.

BUS 102 Math of Business and Finance (3) A study of mathematical concepts and processes as applied to business and finance. Students will develop skills required to perform with accuracy and facility mathematical operations integral to the interpretation and solution of business problems. Arithmetic operations, signed numbers, linear equations, percentage and statistical procedures, are applied to such topics as accounting, retailing, risk management, banking and finance. This course is a core course for the Business Technology A.A.S. degree and may be used to fulfill a business or general elective requirement. Pre-requisite: MAT 087 or equivalent or Permission of Instructor.

BUS 105 Financial Accounting (3) An introduction to accounting as a means of recording business activities. This course includes a study of the classification and recording of original business transactions, the preparation and evaluation of financial statements, and the application of Generally Accepted Accounting Principles. The course will incorporate appropriate computer technology in the instruction process. Pre-requisite: MAT 087 or Permission of Instructor.

BUS 105R Financial Accounting Applications (0) This course is designed to give additional instruction and application to the topics covered in Financial Accounting (BUS 105). The course includes a study of the preparation of journal entries, financial statements, merchandising activities, cash, accounts receivable, plant assets and payroll. Co-requisite: BUS 105.

BUS 106 Managerial Accounting (3) An introduction to the fundamentals of managerial accounting emphasizing the collection, management and use of accounting information in the decision making process within an organization. Topics include a comparison of the different types of organizations and the impact on their financial statements, long term debt and equity transactions, reporting and analysis of cash flows, procedures necessary to determine product costs, break-even analysis, profit planning and cost analysis. The course will incorporate appropriate computer technology in the instruction process. Pre-requisite: BUS 105.

BUS 106R Managerial Accounting Applications (0) This course is designed to give additional instruction and application of topics covered in Managerial Accounting (BUS 106). The course includes a study of partnerships, corporations, bonds, long-term investments, statement of cash flows, job order and process costing, break-even and standard-cost variances. Pre-requisite: BUS 105. Co-requisite: BUS 106.

BUS 117 Intro Financial Systems I (3) Computers are one of the most important tools to the accountant and users of accounting information. This course will provide extensive hands-on exposure to general ledger software. Skills acquired will include the ability to create, update and maintain general ledger master files, culminating in the preparation of computer generated Financial Statements. Pre-requisite/ Co-requisite: BUS 105.

BUS 118 Intro Financial Systems II (3) Computers are one of the most important tools to the accountant and users of accounting information. This course will provide extensive hands-on exposure to general ledger software. Skills acquired will include the ability to process receivables and payables in a mechanized environment, and verify the integrity of these transactions as they are posted to the General Ledger. Pre-requisite: BUS 117, BUS 105 and CIS 100 Co-requisite: BUS 106.
BUS 121 Elements of Marketing (3) An introductory course in marketing intended to make the student aware of the development and efficient distribution of goods and services for a targeted consumer segment. The course studies both consumer and industrial markets, using as the basis for study the product, the distribution, the pricing and promotional techniques.

BUS 138 Supervision and Management (3) A practical course on the principles and techniques of management applied by first line supervisory and training personnel. Special emphasis is placed on plant operations and organization, training and developing supervisors, evaluation of performance and motivation, and supervisory leadership responsibilities.

BUS 147 Disney Communications (3) The Disney Communications course offers the Walt Disney College Program participant the opportunity to learn the concepts inherent in business communication and apply them in the workplace. The skills taught are applicable to a wide variety of business environments. Participants begin by identifying basic listening skills, various methods by which people process information and inclusive communication approaches. Once students acquire these interpersonal skills, they will move on to more complex situational topics including meetings, presentations and facilitated classes. This course does not fulfill curriculum requirements for COM 101 or COM 103. Not open to students who have completed BUS 212. Co-requisite: BUS 292.

BUS 148 Disney Hospitality Management (3) The Disney Hospitality Management course will explore the concept of competitive advantage in the hospitality industry. Competitive advantage has been defined in terms of the organization itself: core competencies within the organization, the people within the organization, the organizational culture or shared values, and knowledge or learning. This course will show how the people within the Disney organization, the shared values and broad knowledge of several job roles, enhance the Disney Company's competitive advantage. Additionally, through recognition and review of several different job roles, students will gain an understanding of how a corporation sustains a total commitment to quality improvement and its impact on guest service. Co-requisite: BUS 292.

BUS 201 Intermediate Accounting I (4) Intensive consideration is given to accounting theory and practice as it pertains to principle statement items. The course deals primarily with investment, receivables, inventories, fixed assets and other material suitable to a second-year course in accounting. Pre-requisite: BUS 106.

BUS 202 Intermediate Accounting II (4) Intensive consideration is given to accounting theory and practice as it pertains to current and long-term liabilities, long-term investments in stocks, stockholders' equity transactions, accounting for leases, Statement of Cash Flows, preparing statements from incomplete records and the analytical process as well as other selected topics. Pre-requisite: BUS 201.

BUS 203 Accounting Applications Electronic Spreadsheets (3) A continuation of the spreadsheet skills developed in CIS 100 and applications of these skills to advanced accounting problems. The topics include creation, modification and printing of spreadsheets and graphs; creating, debugging and executing macros; preparing data tables; the use of built-in functions, and "what-if" modeling. Appropriate current software will be utilized. Pre-requisite: Bus 105 and CIS 100 or Permission of Instructor.

BUS 205 Income Tax Accounting I (3) A course in individual and business taxes under the federal income tax system. The course includes instruction and practice in the fields of individual returns, includable and tax-exempt income, partnership and other information returns, other business property and depreciation deduction, deductible losses, capital gains and losses, involuntary conversions, installment sales, etc. There will be considerable practice in return preparation in all these areas, as well as instruction in same. Pre-requisite: BUS 106.

BUS 207 Cost Accounting (3) Basic principles of cost accounting are developed and applied to industrial situations. Topics include budgetary planning and control; income measurement and inventory valuation; accounting for costs of material, labor, and overhead; job order, process, and standard costs systems. Pre-requisite: BUS 106.

BUS 212 Business Correspondence (3) Business communications and report writing. Theory is put into practice in the writing of representative types of business letters and reports. Methods of all types of business communications are studied, including oral presentation. Pre-requisite: ENG 103 or Permission of Instructor.

BUS 219 Statistics I (3) Topics covering the descriptive and inferential aspects of statistics will include: frequency distributions, graphs, measures of central tendency and dispersion, probability distributions, binomial and normal distributions, introduction to sampling theory, estimation theory, and hypothesis testing (mean, variance, proportions, etc.). Pre-requisite: MAT 141 or MAT 116 or Permission of Instructor.

Need more information? Check our Web site: www.sunyocc.edu
BUS 220 Statistics II (3) A continuation of Statistics I to include the topics: linear and multiple regression, correlation, analysis of variance, non-parametric statistics, Bayesian decision theory and time series (as time permits). Pre-requisite: MAT 131 or BUS 219 or Permission of Instructor.

BUS 230 Principals of Management (3) A study of the management process with a survey of managerial and organizational theories. Specific topics will include planning, organizing, supervision, control, labor relations and the functions of decision making. Pre-requisite: sophomore standing, Permission of Instructor.

BUS 231 Human Resource Management (3) A study of the major areas of human resource management which includes recruitment, selection, job analysis, training, job evaluation, wage and salary administration, and labor relations as well as administrative functions and responsibilities of the human resource manager. Pre-requisite: Sophomore standing or Permission of Instructor.

BUS 235 Advanced Principles of Management (3) An advanced course in management concepts stressing the behavioral approach. This course involves a study of the interaction of workers at all levels of organization structure, motivation, performance evaluation and other concepts vital to successful implementation of modern management practices. Pre-requisite: BUS 230 and sophomore standing.

BUS 243 Business Law I (3) The fundamentals of legal liability, of the growth of our legal institutions, court systems. The principles of the law of contracts, negotiable instruments and sales.

BUS 244 Business Law II (3) The legal aspects of business, covering agency and partnerships, corporations and related business organizations (reference to government regulations of business and business torts).

BUS 247 Disney Human Resources (3) This course explores the human resource management function in a corporate setting and specifically focuses on the development of knowledge and skills needed by every corporate manager. Topics include: interviewing, employment law, labor relations, compensation, performance appraisal and training and maintaining effective environments. The classes are designed to familiarize participants with current human resource practices and laws applicable to their career fields. Not open to students who have completed BUS 231. Co-requisite: BUS 292.

BUS 248 Disney Organization Leader (3) This course examines and applies the universal principles of leadership to the Disney culture. It is designed to build leadership knowledge and skills transferable to community and commerce. Instructional methods include: lectures, group discussions, self assessment, project development and presentation, and situational studies. Co-requisite: BUS 292.

BUS 290 Cooperative Education Work Study (3) A course designed to prepare students to work alter graduation. A learning contract containing specific educational objectives that relate to both the work experience and the field of study is developed between the student and a faculty co-op coordinator. Course requirements include a minimum of 180 hours of work, the maintenance of a work journal to record hours worked and duties performed, other work as required by the instructor, and a final term paper. The student’s performance will be evaluated by the co-op faculty coordinator on the basis of meeting the objectives in the learning contract and satisfactory evaluations by the employer. A letter grade will be awarded. No experiential credit is given for previous work in the field. The work experience cannot be used to satisfy the requirements of any other course. Pre-requisites: The Business Administration department and the department in which the student is matriculated must both approve in advance the work experience that will be used.

BUS 292 Disney Co-Op Work (9) This course provides work experience placement and 21 hours of seminars for one semester at Walt Disney World in Orlando, Florida. At the time of the required interview with Disney representatives, students must have full-time status and a minimum G.P.A. of 2.0. Students will participate in Disney management seminars and projects on such topics as Disney traditions, communication, cultural diversity awareness and corporate changes and challenges. The student is responsible for transportation to and from Florida. Students receive an hourly wage. They are housed on Disney property; housing costs are deducted from their weekly paycheck. Students must register for this course during the same semester they are enrolled in the Disney experience. This course cannot be taken concurrently with BUS 290. Pre-requisite: Full time status; minimum 2.0 G.P.A.

BUS 295 Business Policy Seminar (3) A capstone course that integrates concepts and skills learned in core business courses with the policy making process. Emphasis is placed on a systematic analysis of the factors upon which business strategies and business decisions are made. Major issues in the field of business are studied by means of course work, case study, field research and computer simulation. Pre-requisite: Sophomore standing and completion of Business Technology A.A.S. business core requirements or Permission of Instructor.
BOT 153 Keyboard/Information Processing (3)
Fundamentals of touch typing using a computer keyboard. Students must keyboard a minimum of 30 words per minute within 5 errors on 3-minute timed writings. Basic formatting skills are developed in creating business reports. Not open to students with BUS 100.

BOT 154 Document Formatting/Information Processing (3)
Development of skill in typing basic personal and business letters, tabulations, memorandums and envelopes. Drills to improve speed and accuracy with the development of keyboarding at a minimum speed of 40 words per minute within 5 errors on 5-minute timed writings. Pre-requisite: BOT 153 or Equivalent.

BOT 174 Intro to Office Technology (3)
Through the use of a lecture-rotation system, students will complete projects, develop basic skills in text editing, machine transcription, data entry and in using the electronic keyboard. Pre-requisite: BOT 153 or Permission of Instructor.

BOT 175 Word Processing (3)
A study of modern word processing/administrative support systems in organizations through the application of word processing concepts and procedures. Word processing skills are developed on a CRT terminal using contemporary word processing software on a minicomputer. Pre-requisite: BOT 153 or Permission of Instructor.

BOT 176 Advanced Office Technology (3)
Incorporates current technology, such as word processing, spreadsheets and database software, into a simulated office environment. Human relations, decision making and problem-solving activities are an integral part of the simulated training. Pre-requisite: BOT 154, BOT 175 or Permission of Instructor.

BOT 253 Advanced Document Formatting/Information Processing (3)
Development of high-level proficiency in typing advanced business correspondence, tabulations, business reports and business forms. Continuation of basic skill-building with emphasis on the development of a minimum keyboarding speed of 50 words per minute within 5 errors on 5-minute timed writings. Pre-requisite: BOT 154 or Equivalent.

BOT 256 Administrative Office Procedures (3)
Integration of the skills of keyboarding, shorthand and office machines with secretarial procedures in a simulated office environment. Through lecture and individualized instructions, students gain skill in processing mail, making travel arrangements, records management, telephone techniques, scheduling appointments, as well as setting priorities, making decisions, and organizing their work. Pre-requisite: BOT 154 or Permission of Instructor.

BOT 278 Internship (3) A cooperative educational internship in an office integrating practical work experience with classroom learning. The student is required to spend a minimum of 120 hours at his/her intern position and a total of 14 hours in practicum sessions. In addition, the student shall prepare a report on his/her entire program which, together with faculty and employer on-the-job evaluation, will form the basis for his/her final grade. Pre-requisite: BOT 256 or Permission of Instructor.

Chemistry
CHE 093 Chemistry Fundamentals (0) A one-semester, non-credit course covering elementary concepts in chemistry. Intended for students with no previous knowledge of chemistry and little or no experience in science. Topics include the nature of elements and compounds, the states of matter, solutions and electrolytes, an introduction to organic compounds, measurements, units and conversion factors. Three class hours.

CHE 103 General Chemistry I (4) A study of atomic structure, introductory chemical bonding, stoichiometry, kinetic molecular theory and the states of matter, solutions, ionic reactions, oxidation and reduction, and acid and base theories. This course presupposes a knowledge of intermediate algebra. Three class hours and three laboratory hours. Pre-requisite: Mat 087 and college-level reading.

CHE 103R General Chemistry I Recitation (0) Optional recitation section for CHE-103. Provides the opportunity for students to apply the theories, concepts and problem-solving techniques presented in CHE-103.

CHE 104 General Chemistry II (4) A study of thermodynamics, kinetics, chemical equilibrium, electrochemistry, advanced concepts in chemical bonding, coordination complexes, basic organic chemistry, biochemistry and nuclear chemistry. Three class hours and three laboratory hours. Pre-requisite: CHE 103, MAT 114.

CHE 104R General Chemistry II Recitation (0) Optional recitation section for CHE-104. Provides the opportunity for students to apply the theories, concepts and problem-solving techniques presented in CHE-104.
CHE 151 Basic Chemistry Health I (3) A study of chemistry at an introductory level, intended for students in the paramedical sciences (nursing, respiratory therapy, etc.) Topics include the nature of atoms, ionic and covalent bonding, nomenclature, chemical change and equilibrium, gas laws, properties of water and aqueous solutions, acids, bases and pH, and an introduction to organic and biochemical compounds. This course presupposes some knowledge of elementary algebra. Not open to Math-Science students. Pre-requisite: College-level reading and placement into MAT 087 or higher.

CHE 151 Preparatory Workshop: This Preparatory Workshop is designed to help students succeed in the Chemistry for Health Sciences course this semester. This is free to all OCC students enrolled in the CHE 151 course. The Workshop is offered prior to the beginning of the fall, spring, and summer sessions and is intended for anyone without a strong chemistry/algebra background. Registration must be done directly through the Chemistry and Physical Sciences Department. Concurrent enrollment in CHE 151 required.

CHE 151L Basic Chemistry Health I Lab (1) Optional laboratory for CHE 151; illustrative experiments emphasizing the concepts, principles and techniques presented in CHE 151. Three laboratory hours per week. Pre-requisite or Co-requisite: CHE 151 and placement into MAT-087 or higher.

CHE 151R Basic Chemistry I for Health Science Recitation (0) Optional recitation section intended for students concurrently registered in CHE-151. The recitation provides the opportunity for students to apply theory, concepts and problem solving techniques presented in CHE-151.

CHE 152 Basic Chemistry Health II (3) A study of organic chemistry and biochemistry at the introductory level. Topics include the structure and properties of aliphatic and aromatic hydrocarbons, functional groups, carbohydrates, lipids, proteins, enzymes, vitamins and drugs. Not open to Math-Science students. Pre-requisite: CHE 151 or CHE 103 and Permission of Instructor.

CHE 152L Basic Chemistry Health II Lab (1) Optional laboratory for CHE 152; illustrative experiments related to the material covered in CHE 152. Pre-requisite: CHE 151 or CHE 103 and Permission of Instructor. Pre-requisite or Co-requisite: CHE 152.

CHE 203 Quantitative Analysis (4) Includes traditional and modern methods of gravimetric and volumetric analyses and instrumental methods. Theory and equilibrium calculations will be emphasized as well as practiced. Three class hours and four laboratory hours. Pre-requisite: CHE 104, MAT 114 or higher.

CHE 204 Quantitative Instrumental Analysis (4) Includes instrumental quantitative and qualitative analyses in the fields of electrochemistry, spectroscopy, chromatography, mass spectroscopy, nuclear magnetic resonance and other selected topics. Three class hours and four laboratory hours. Pre-requisite: CHE 203.

CHE 205 Organic Chemistry I (5) An introduction to the chemistry of the functional groups of aliphatic compounds. Emphasis is placed on mechanisms of reactions and the relationship of structure to reactivity. Laboratory work is concerned with the synthesis, reactions, and identification of representative organic compounds along with experience in the necessary experimental techniques. Four class hours and four laboratory hours. Pre-requisite: CHE 103 and 104 and college-level reading.

CHE 206 Organic Chemistry II (5) A continuation of CHE 205 with more emphasis on mechanisms, structures, natural products and the study of qualitative organic analysis. Four class hours and four laboratory hours. Pre-requisite: CHE 205 and lab and college-level reading.

Cinema

FOR MORE INFORMATION, CONTACT THE ENGLISH DEPARTMENT IN ACADEMIC BUILDING, ROOM A349, (315) 498-2266.

CIN 211 Comedy Films (3) Studies the development of film comedy from its humblest origins to its most sophisticated forms. The course breaks down into studies of the physical, clown tradition of comedy, and the more sophisticated verbal comedy. An emphasis on key comic performers, writers and directors helps make this an intellectual study of why comedy is universally appealing.

CIN 212 Horror/Fantasy Film (3) A study of the classic myths of horror, with an emphasis on the literary origins of horror tales and a close study of such significant books as Dracula and Frankenstein, with interpretations of why such terrifying concepts have continuously proven popular the world over, and a study of the way in which Hollywood motion pictures have both extended and distorted the varied tales.

CIN 213 The Animated Film (3) A study of film animation, its history and the way in which it is achieved, with a special emphasis on the relationship of the animated film to trends in modern art, and the philosophy - social, political, etc. - of the major animated filmmakers.
CIN 214 Alfred Hitchcock (3) A study of the man regarded by many as the greatest filmmaker of all time, showing the way in which, despite his guise as a light popular entertainer, Hitchcock created a body of films which are tied together by philosophic and artistic threads. A close study of the recurring themes and technical devices which mark his movies from the earliest silent features to the most recent sound ones.

CIN 215 Woody Allen (3) A study of Woody Allen's emergence from gagwriter to award winning filmmaker and short story writer. All of Allen's motion pictures, as well as many of his writings, will be covered to trace the emergence of his unique point of view.

Communication (Speech)

FOR MORE INFORMATION ABOUT COMMUNICATION COURSES, CONTACT THE ENGLISH DEPARTMENT IN ACADEMIC BUILDING, ROOM A349, (315) 498-2266.

COM 101 Interpersonal Communication (3) This introductory course is designed to acquaint students with the communication skills needed to succeed both academically and socially. Course content includes communication theory, perception, verbal and non-verbal communication, effective listening, awareness of the self as communicator and relational communication. Emphasis is placed on class discussion as a tool for learning and practicing the skills presented in class. This course may not be taken simultaneously with COM 103.

COM 103 Public Speaking (3) Public Speaking is a course designed to acquaint the student with the basic skills of public discourse. Course content includes the importance of audience analysis and adaptation, how to choose an appropriate topic, organization, speech purpose and delivery. Word study, effective language use, effective non-verbal skills and critical listening skills are stressed. A student may not enroll in both COM 101 and COM 103 in the same semester.

COM 114 Advanced Speech (3) This course concentrates on the issues of persuasive discourse, argumentation and debate. The basic theory of persuasion will be presented through lecture, discussion and assigned readings. Students will research and deliver persuasive speeches and participate in debate-style group presentations. Pre-requisite: COM 101 and PHI 107 PHI 107 can also be taken as a Co-requisite.

COM 158 English Pronunciation (2) This is a performance course designed to help ESL students develop intelligible Standard American English pronunciation. Students will be required to recite exercises in class on a daily basis, as well as learn the basics of the vocal mechanism, aspects of the voice, vocal inflection, articulation and pronunciation.

COM 187 Communication and Conflict Management (3) This course explores the nature of conflict interaction from a communication perspective. The course will examine attitudes, conditions, and perceptions that influence communication interaction and conflict. Students will be introduced to communication tools and techniques for effectively managing conflict in interpersonal relationships, groups, the workplace and organizations. Prerequisite: COM 101.

COM 210 Intercultural Communications (3) Intercultural Communication seeks to understand the differences in communication that occur within and between cultures. The course concentrates on issues of verbal and nonverbal differences in cultural expression, co-cultures and their “talk” and the barriers communication styles and communities face in the exchange of meaning. Strategies for facilitating effective communication will be addressed.

COM 214 Small Group Communication (3) Small Group Communication introduces the student to group process communication. The course focuses on an understanding of groups as a unique communication environment, the nature of group leadership and group interaction. This is a performance course in which students will participate in group work and present group findings to the class. Pre-requisite: COM 103.

COM 219 Voice and Diction (3) Voice and Articulation is designed to introduce students to the theory and practice of using the voice as a communication tool. The course will concentrate on the international phonetic alphabet and vocal production for both professional and social communication.

COM 220 Oral Interpretation of Literature (3) A performance-oriented course designed to aid the student in analyzing literature, both intellectually and emotionally, and developing the vocal and physical skills necessary for communication of the material. The literature will be drawn from prose, poetry, drama and children’s literature. Pre-requisite: COM 103 or Permission of Instructor.

COM 230 Communication and Gender (3) A course designed to acquaint the student with the unique ways in which women and men communicate. The focus of this discussion-oriented class is on how gender influences verbal and nonverbal communication, listening, speaking and interpersonal relationships. Additional topics covered will include communication and gender in the workplace and the classroom as well as the influence of the media on gendered communication. Pre-requisite: COM 101 or Permission of Instructor.

Need more information? Check our Web site: www.sunyocc.edu
CMT 101 Intro Computers/Applications (4) This course is an introduction to basic concepts underlying the computer and its applications in technology and science fields. The focus of the course is on studying the computer for acquiring and presenting information, using spreadsheet to solve problems, collecting and storing data and word processing. Topics include: hardware and software computer concepts, an introduction to internet in acquiring and sharing information (WWW, User list and Personal Message Centers), introduction to spread sheet applications in solving problems and charting, use of text editors to write documents (Word Processing), an introduction to technical presentations, use of application programs for organizing data and drawing charts and schematics. Pre-requisite: MAT 079. Co-requisite: MAT 088/087.

CMT 110 Software Applications for Technologists (Verizon students only) (3) The primary objectives of this course are to introduce students to a text editor to write a simple document and to use a spreadsheet program to solve problems related to computer circuits. The topics include: use of a text editor to write and edit a technical document, use of a spreadsheet to solve digital designs, provide graphical solutions, and track data and integration of data from the spreadsheet and graphics editor into a technical document. Two-hour lecture and two-hour lab. Co-requisite: MAT 101.

CMT 161 Digital Electronics Telecommunication (Verizon students only) (4) This course will prepare students in digital electronics with topics related to number systems and codes, logic functions and Boolean algebra. IC building blocks are used in applications ranging from logic gates to flip-flops, counters, registers and arithmetic circuits. Algebraic reduction and mapping are used to minimize Boolean expressions and combinational logic circuits. Computer simulation of digital circuits will be used to verify actual hardware setups. Pre-requisite: ELT 153 and MAT 107.

CMT 171 Digital Electronics (4) An introduction to digital (computer) circuits, emphasizing the concepts that are basic to any digital system: Number systems, Boolean algebra, Karnaugh maps, small-scale and mid-scale gates, combinational networks, state machine design, timing diagrams, digital arithmetic, busconnected systems and memory devices. Three class hours and a three-hour laboratory. Co-requisite: Intermediate algebra or equivalent.

CMT 180 Computer/Systems for Telecommunication (Verizon students only) (4) This course is designed to train students in the organization, architecture and hardware aspects of digital computer systems. Topics include an introduction to microprocessors, types and characteristics of different chips, mother-boards, bus structures, memory, I/O interface devices, disc drives, video displays and printers. Serial and parallel buses are discussed. Applications include the interfacing of peripherals, data communications between computers and team project. Pre-requisites: CMT 161, ELT 257.

CMT 190 Intro to Microprocessors (3) An introduction to basic principles of microprocessor architecture and assembly language instructions. The content of the course is divided into three sections: microprocessor architecture, mnemonics and interfacing I/Os. The course is designed around the Z-80 microprocessor and its mnemonics. Topics included in the course are: overview of computers and microcomputers, Z-80 microprocessor architecture, bus architecture, memory (R/W Memory, ROM, and EPROM) memory map, I/Os, interfacing devices and introduction to the Z-80 instruction set. The third section-interfacing I/Os-introduces various I/O techniques such as parallel I/O, serial I/O, and interrupts. Two class lectures and one hour for assembly language instructions. Pre-requisites: CMT 171 or CSC 101 or equivalent. The course is open to students from all disciplines.

CMT 190L Microprocessor Lab (1) This laboratory course reinforces the contents of microprocessor architecture and demonstrates interfacing applications. Experiments included in the laboratory are: use of the Z-80 instruction set, subroutines, stack, timing, wave generation, memory and I/O interfacing. Two-hour laboratory Co-requisite: CMT/CSC 190.

CMT 201 Computer Maintenance and Troubleshooting (4) The course is designed for students who are interested in hardware aspects of microcomputers, namely troubleshooting, maintenance and upgrading. The topics include microcomputer system overview, operating systems, circuit boards and peripherals. The primary focus is understanding the system from the hardware point of view, troubleshooting and maintenance. The peripherals discussed are: keyboard, disks, hard disk, printer, monitor and modem. Additional topics included are: installation, upgrade and state-of-the-art hardware. Pre-requisite: Permission of Instructor.

CMT 231 Local Area Networks (4) An introductory course in local area networks. Students will be introduced to both Ethernet and Token Ring Network Topologies as typically encountered in a single office environment. Novell Netware 3.11 and Microsoft Windows for Workgroups will be
used to illustrate both client/server and peer-to-peer networking environments. The student should have a thorough working knowledge of MS/PC-DOS. Pre-requisite: CMT 190, CMT 271 and CMT 272 (See CIS 271 and CIS 272).

CMT 278 Principals of Computer Programming (3) Principles of computer programming applied to the solution of various technical problems. No previous knowledge of computers or programming is required. Two class hours and a two-hour laboratory. Pre-requisite: ELT 141 or Permission of Instructor.

CMT 291 Microcontroller Interfacing (4) The course is concerned primarily with the basic concepts in interfacing using a microcontroller. The topics are divided into groups such as: Microcontroller architecture focusing on a specific microcontroller (such as 68HC11) and its instructions set, parallel I/O, serial I/O and data acquisition. Topics included in parallel I/O are: basic concepts in data transfer, interfacing displays using simple I/O and the scanned technique, interfacing matrix keyboards, memory-mapped I/O, interrupts and programmable I/O devices with handshake signals. Serial I/O includes basic principles in serial communications, software and hardware controlled serial techniques, USART, modems, and communication protocols and standards. Data acquisition includes A/D and D/A converters, their applications and interfacing. Software is integrated with the topics, as necessary, using PC-based software development system. Three class lectures and a three-hour laboratory. Pre-requisite: CMT/CSC 190.

CMT/CSC 292 Microcomputer Systems (4) This course is concerned with using the PC as a tool for applications. The topics are divided into four groups: overview of the 80x86 family PC, programming, PCI bus data acquisition board and PC applications. The microprocessor topics include 808x86 microprocessor and system architecture. Programming topics form a basis to perform applications with general language structure, data type and variables, functions and program control loops. The data acquisition topics will cover the design and use of commercially available boards with A/D, D/A and digital I/O. Programs are developed using a high-level language. The PC applications use commercially available boards to interface with external test equipment and circuits. Emphasis will be placed on use of lab test equipment. Three class lectures, one-hour programming session, two-hour laboratory. Pre-requisite: CMT/CSC 190.

CMT 299 Selected Topics (1-4) Topics are selected to respond to changes in technology and needs of students to enable them to prepare for career opportunities. Laboratory experience is included if appropriate for the topics. The number of class and laboratory hours is determined by the scope of the topics, with one credit hour for each 15 hours of lecture, and one credit hour for 30 to 45 hours of laboratory per semester. Pre-requisite: Sophomore standing and Permission of Instructor.

### Computer Information Systems

FOR MORE INFORMATION, CONTACT THE COMPUTER STUDIES DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W230, (315) 498-2425.

CIS 100 Principles of Information Systems (3) An introductory course in computer fundamentals, covering computer hardware, software and business applications. A significant portion of the course is devoted to the use of modern applications software packages such as word processing and spreadsheet software. The course involves extensive hands-on exposure to both time-sharing and microcomputer systems. Other topics include the evolution of the information-based society, the information-processing cycle and the processing capabilities of computers.

CIS-101 Computer Concepts: An Introduction (1) This course provides Computer Information Systems majors with an introduction to computer concepts and terminology to prepare them for subsequent courses. Topics covered will include binary and hexadecimal number systems, analog and digital signals, data storage, transmission and processing methods, and networking. Topics will be covered at an introductory level. The course will be taught primarily online to introduce CIS majors to the experience of the electronic community. One lecture hour per week. Required for CIS majors enrolled in CIS 100. Co-requisite: CIS 100 or Permission of Instructor.

CIS-102 Internet Basics (3) An introductory course in the usage of the Internet, intended for non-majors and majors with little or no Internet experience. Students will learn how to use Web browsers, search engines and email. Different types of Web-delivered media will be presented and discussed, in addition to a general history of the Internet. Several issues will also be addressed, such as content evaluation, legality, ethics and virus protection. Pre-requisite: None.

CIS-103 Computer Communications Using Internet (1) Basic computer communications concepts are introduced. Course content includes the use of technology for communications, information retrieval and verification. The local computer network and email system will be introduced and heavily used to create a virtual student community. In addition, the responsibilities of electronic citizenship and techniques for proper behavior using shared resources will be learned and practiced.
CIS-106 An Introduction to Digital Media (3)
This introductory-level course provides a basic hands-on approach for the creation and assessment of a team-based digital media project. Utilization of the components found in various software programs will allow students to select a group digitally based project utilizing various aspects of audio, video and digital media. A culminating project will be created for distribution via DVD, the Internet and/or World Wide Web, or some other appropriate channel/medium. A basic knowledge of computers and some background in music and/or musical theory would be helpful, but is not required. Pre-requisite: None.

CIS-120 Advanced Principles of Information Systems (3)
The continuation of CIS 100. Topics include graphics, simple software and hardware management, operating systems, presentation graphics, database applications and current issues in computing and information science impacting on today's society. Hands-on modules include projects with current operating systems, a database management system and a collaborative project integrating concepts and techniques learned over the semester. Pre-requisite: CIS 100 or Permission of Instructor.

CIS-130 Foundations of the Internet (3)
In this first course of Web Technology sequence, students will be introduced to Internet communication concepts and principles. Topics include networking basics, protocols, Unix commands, file management, remote access and file transfer. Additionally, students will learn beginning HTML editors, image editing for web optimization and web content evaluation. Students will be given a network account for publication of their Web pages.

CIS-151 Technology and Organizations (3)
This is a course on the impact of technologies related to work and organizations. It addresses both the unintended and intended outcomes of technology. Students examine the changing nature of time demands, the relationship between the organization and its members, the “labor saving” device, quality of work life, computer misuse, repetitive strain injuries and other topics.

CIS-230 Web Site Design and Development (3)
This course will expand upon CIS 130 and will focus on principles of design in the authorship of Web pages. As the focus shifts from writing Web pages to designing full Web sites, so too will the tools shift from HTML editors to WYSIWYG editors. A topic of discussion will be the issue of accessibility. Further development topics include immediate graphics manipulation, JavaScript, multimedia and an introduction to advanced dynamic content. Three lecture hours and one recitation lab hour. Pre-requisite: CIS 130.

CIS-231 Advanced Web Servers (3)
A continuation of CIS 230, students will learn advanced web management techniques. Students will utilize a server with a networking operating system and web server software (such as Unix and Apache) to create and manage Web sites. Topics include forms, CGI-programming, Web security, installing and customizing Web software, accessing database through Web pages and the use of intra and internets. Pre-requisite: CIS 230 and a programming course or Permission of Instructor.

CIS-255 Database Design and Development (3)
The fundamentals of database design and implementation are introduced with an emphasis on data relationships. Utilization of a Database Management System (DBMS) and its components will be covered, along with Structured Query Language (SQL) and data security techniques. Pre-requisites: CIS 120 or Permission of Instructor.

CIS-271 Internetworking I (4)
An introduction to the fundamentals of networking. Students will learn the fundamentals of installing, programming and troubleshooting a network based on the OSI (Open System Interconnection) model. Students will be introduced to IP and TCP/IP addressing, including subnet addressing. The hardware components of basic networks, including router will be covered, along with basic network topologies and designs. 3 hours lecture, 2 hours lab.

CIS-271L - Internetworking I Lab

CIS-272 Internetworking II (4)
The continuation of CIS 271. The students will be introduced to advanced networking concepts. Topics include LANS, WANS, and other types of regional networks. Students will learn to segment networks with bridges, routers and switches. Students will also be instructed on configuring and monitoring various types of networks. After successful completion of this course, students will be qualified to pursue a number of industry-standard certifications, including Cisco Certified Networking Associate (CCNA) and Computing Technology Industry Association (Comp TIA) Networking certifications. 3 hours lecture, 2 hours lab. Pre-requisite: CIS 271.

CIS-272L - Internetworking II Lab

CIS-285 System and Data Base Design and Implementation (3)
A capstone course for Computer Information Systems majors, this seminar-type course will require the student to integrate techniques and concepts learned from other courses. A thorough, concise study of a simulated environment will be used to do a system design including documentation and an actual data base design. Data gathering, planning, process mapping, design and cost/benefit analysis will be utilized. A modern, structured, data base language will be used for implementation. Pre-requisite: CIS 100, CIS 120 or Permission of Instructor.
CIS-291 Information Technology Support I (4)
This course will prepare students to work with users of computer software and hardware. Topics include basic hardware components, configurations, installations, troubleshooting, preventative maintenance, safety concerns and customer service issues. Software issues such as installation and upgrading, BIOS configurations and settings, diagnostic tools and maintenance will also be covered. This detailed, hands-on approach will prepare students to take the A+ certification examination administered by the Computer Technology Association (CompTIA). There will be no experiential credit granted for this course. Students will receive 3 hours of instruction and 1 lab hour per week. Pre-requisites: CIS 120, CIS 130, or Permission of Instructor.

CIS-292 Information Support Practicum II (3)
A continuation of CIS 291, this capstone course will prepare the student for working with and training users in the use of modern software and hardware. Students will learn hardware and software maintenance techniques, including network/printer/processor troubleshooting, network and desktop computer security and software maintenance. In addition, students spend 45 hours during the semester assisting users by troubleshooting hardware and software problems, doing technical research, tutoring and developing/maintaining Web pages. There will be both individual and team assignments. There will be no experiential credit granted for this course. Students will receive one hour of instruction, 1 lab hour, and perform 3 hours practicum per week. Pre-requisite: CIS 291 or Permission of Instructor.

Computer Science
FOR MORE INFORMATION, CONTACT THE COMPUTER STUDIES DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W230, (315) 498-2425.

CSC-110 Program Design and Development (4)
This is a language independent introduction course on computer program design and development. Emphasis is on the identification and solution of business problems through systems of computer programs. Programs are described and designed through such tools as program flow-charts, structure charts and pseudocode. Within this framework, programming languages are treated as tools which can be selected, as appropriate, to implement the designs. Four lecture hours and one optional recitation hour per week. Pre-requisite: CIS 100 or Permission of Instructor.

CSC-111 Fundamentals of Computing I (4)
This course provides the foundation for a program of study in computer science. It introduces the discipline of computing and the roles of professionals. A contemporary high-level language with appropriate constructs for structured design and structured types is presented. It integrates an introduction to algorithm design, and understanding of abstraction applied to data types and structures, and an appreciation of imperative and object-oriented programming. Programming assignments are an integral part of this course. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 110 or Permission of Instructor.

CSC-111R - Fundamentals of Computing I Recitation

CSC-112 Fundamentals of Computing II (4)
This course develops the discipline of computing and the roles of professionals by introducing software engineering early in the learning process. This course formally presents abstract data types (ADTs). The ADTs presented are stacks, queues, lists, trees, graphs and tables. Simple sorting and searching techniques, along with their efficiency are studied. The use of pointers and recursion is covered. Programming assignments are an integral part of this course. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 111.

CSC-112R - Fundamentals of Computing II Recitation

CSC-162 Visual Basic I Programming (4)
This course covers the manner in which the computer is used to solve problems. Lectures cover the style and techniques necessary to solve problems using the Visual Basic programming language. Object-oriented programming (OOP) will be covered. This course will allow students to take advantage of the many new capabilities of building applications in a graphical user environment. Four lecture hours and one optional recitation hour per week. Pre-requisite: MAT 093.

CSC-162R - Intro to Visual Basic Programming Recitation

CSC-190 Introduction to Microprocessors (3)
An introduction to basic principles of microprocessor architecture and assembly language instructions. The content of the course is divided into three sections: microprocessor architecture, mnemonics and interfacing I/Os. The course is designed around the Z-80 microprocessor and its mnemonics. Topics included in the course are: overview of computers and microcomputers, Z-80 microprocessor architecture, bus architecture, memory (R/W Memory, ROM, and EPROM), memory map, I/Os interfacing devices and introduction to the Z-80 instruction set. The third section-interfacing I/Os-introduces various I/O techniques such as parallel I/O, serial I/O, and interrupts. Two class lectures and one hour for assembly language instructions. Pre-requisite: CMT 171 or CSC 110. The course is open to students from all disciplines.
CSC-190L - Microprocessors Laboratory
CSC-190P - Programming Session
CSC-211 Computer Systems Organization (4)
This course emphasizes the organization and operation of real computer systems at the architectural level. The mapping of statements and constructs in a high-level language onto sequences of machine instruction is studied, as well as the internal representation of simple data types and structures. Topics include the fetch/execute cycle, bus structures, memory hierarchy, addressing modes and subroutines. Alternative architectures, such as vector and parallel models, are presented. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 111, MAT 161.

CSC-211R - Computer Systems Org Recitation
CSC-221 Software Engineering (4) This course is the capstone course for the A.S. degree in Computer Science. The course focuses on software engineering and requires a major software project. Topics include: object orientation, software design tools and techniques (such as data flow diagrams, structure charts, CRC cards, algorithms, pseudocode), software reuse, software test strategies and documentation standards. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 112.

CSC-250 Client/Server Operations (3) An introduction to the operating system for intra and internet. Students will be introduced to the architecture and systems software behind a client/server environment, and learn how to configure, monitor and manage a network. Specific topics include Internet protocols, shells, scripts and daemons. The Unix operating system will be used to illustrate a modern multi-user system. This course is intended for students wishing a higher-level understanding of operating systems and students enrolled in the Web Technology certificate. Pre-requisite: CIS 130 or Permission of Instructor.

CSC-263 C++ Programming (4) An introduction to the C++ language which provides software developers with an extendable language in which abstract data types suitable for a given application can be created and then used as naturally as built-in data types. While based on the C programming language, C++ provides data and function encapsulation, function overloading, inheritance, strong typing and other features needed for object-oriented programming (OOP). This makes C++ a true high-level language suitable for professional software engineering. The language constructs and OOP methods are introduced with a series of examples of increasing sophistication, which are the basis of project assignments. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 110 or Permission of Instructor.

CSC-264 Java Programming (4) Java (tm) is a different type of object-oriented language in that it supports a minimal set of programming language constructs that reflects the technical advances in programming methodology over the last fifteen years. This course presents Java expressions, variables, methods, classes, objects, abstraction, overloading, inheritance and applets. Four lecture hours and one optional recitation hour per week. Prerequisite: CSC 110 or Permission of Instructor.

CSC-265 Visual Basic II Programming (4) This course builds upon the fundamental topics explored in CSC 162. More advanced topics involving object oriented programming will be studied. This includes Graphical User Interface; File and Database Management; ActiveX controls; Networking, Internet and World Wide Web applications; multimedia applications; and Dynamic Data Structures. Four lecture hours and one optional recitation hour per week. Pre-requisite: CSC 162 or Permission of Instructor.

CSC-265R - Adv Visual Basic Recitation
CSC-280 C#.Net Programming (4) This course focuses on the language and programming fundamentals of the C# language and object-oriented programming, in the context of the .NET development environment. Topics covered will include: The .NET platform including common language runtime and framework, Visual development environment, object-oriented programming, C# language and application structure, basic GUI constructs and basic concepts of XML. This course may not be used to fulfill a Liberal Arts elective. Pre-requisite: CSC 110 or Permission of Instructor.

Counseling
FOR MORE INFORMATION, CONTACT THE COUNSELING DEPARTMENT, (315) 498-2382.

OCC 101 College Seminar (1) A course in coping skills designed to facilitate student success in college. This course will emphasize student attitudes and adjustment to the college environment through dynamic student/ faculty interaction.

CNL 175 Career Exploration (3) This course is intended to help students explore the process of choosing, preparing for and advancing in a career. The course has an emphasis on the long-range and continual process of career decision making, career growth and the exploration of a chosen life work and its life style. Students will use the information and resources of the Counseling Center to describe the world of work: its structure and organization, the demands imposed upon individuals, and the rewards and benefits it bestows. Elective for all curricula. Not open to students who have taken GEN 154.
CNL 270 Job Search Skills (1) Intended to help students develop job search techniques by using a systems approach to job hunting. Emphasis will be given to the development of job-hunting philosophy and to self-assessment so that students can identify their strengths. Sources of job leads will be covered, together with methods of investigating these leads. Resume preparation, letters of application, interview techniques and follow-up letters will be covered in-depth. On-the-job strategies will be discussed. Recommended for full-time sophomore students or students about to enter the job market.

Criminal Justice
FOR MORE INFORMATION, CONTACT THE CRIMINAL JUSTICE DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A181, (315) 498-2341.

CRJ 101 Justice System (3) A comprehensive overview of the relationships among police, courts, prosecutors and corrections as they interact to deal with criminal behavior. Required of all Criminal Justice majors.

CRJ 102 Intro to Criminal Law (3) An in-depth study and historical approach to the development and understanding of criminal law. A survey of the basic elements required to classify occurrences as crime. Classification of crimes with respect to the segments of society they affect.

CRJ 106 Juvenile Delinquency (3) Combines an orientation to the causes, treatment and prevention of juvenile delinquency emphasizing the contributing factors of child abuse, school failure and low self esteem. An examination of the methods of handling juvenile offenders by the police, interviewing techniques, screening and referrals to social agencies are covered.

CRJ 107 Women and Crime (3) Women and Crime is designed to acquaint the student with issues affecting women involved in crime and the Criminal Justice System. The etiology, extent and nature of female crime will be discussed. The involvement of women in each phase of the criminal justice system from arrest, sentencing and corrections will be studied.

CRJ 108 Police Community Relations (3) Designed to explore the interpersonal relations of police officers (male and female) as they deal with various unique and identifiable community, ethnic and racial groups. The traditional role expectations of Law Enforcement will be assessed in light of changing community demands for protection and service.

CRJ 112 Intro to Law Enforcement (3) The history and development of law enforcement in modern society and the various systems of police control; philosophical aspects of police service with an overview of crime and police problems; the processes of justice and constitutional limitations on law enforcement; organization and jurisdiction of local, state and federal agencies; survey of professional career opportunities.

CRJ 122 Intro to Corrections (3) An introductory course focusing on the development, organization and effectiveness of corrections. The legal rights of the probationer, the inmate and the parolee are examined in detail, providing both the student and practitioner the basis for understanding future developments in corrections. Observations are made as to the effectiveness of modern rehabilitation techniques, obstacles to correctional progress and strategic errors made in correctional reform.

CRJ 132 Intro to Security (3) Historical background of security, nature and scope of private security functions in a modern society; the basic principles of physical security guard services - contract or proprietary, internal loss prevention, defensive systems, electronic devices, fire prevention and safety, the security function in the corporate structure, bomb procedures, hospital security, disaster planning, polygraph procedures, loss prevention and retail theft, career opportunities in the security profession.

CRJ 142 Criminal Investigation (3) Investigative methodology in the field of crime, modus operandi, sources of information, crime scene search and recording, collection and preservation of physical evidence, interviews and interrogation, scientific aids, observation and description, case preparation, testimony in court.

CRJ 162 Intro to Safety (3) A survey course covering a wide range of safety topics applicable to business, industry, construction and institutions. Included are the history and objectives of the safety profession; specific activities such as hazard evaluation, accident analysis and record-keeping; and specialized topics such as material handling, workers compensation, fire protection and industrial hygiene. The course will enhance the knowledge of those with limited experience in safety while providing a basic understanding of the role of the safety profession for those with no experience.
CRJ 163 Intro Safety Management (3) Introductory course on the Management of Safety in business for students who have had CRJ/FPT 162 (or direct experience) in safety. It is designed to provide an overview of the basic concepts of modern safety management systems that are used to develop and maintain an effective safety program. It will aid present and future safety managers in developing a formal safety program. In particular, the following sections are covered: Introduction, Basic Safety Concepts and Methods, Principles of Safety Management and Special Techniques, Problems and Auxiliary Functions. The students will prepare class assignments to reinforce their understanding of the concepts presented and gain actual experience in developing a formal safety and health program.

CRJ 201 Criminology (3) Historical and contemporary viewpoint as to the causes of crime are discussed and debated to allow the student a complete understanding of the complex question as to “how the offender should be treated.” Social factors, crime in the community and cross-cultural references are presented along with case studies of criminals and their motivation for behavior.

CRJ 202 Ethics in Police Work (3) An analysis of the problems involved in formulation of ethical standards for police departments; the legal and social basis of such standards of ethics various considerations relative to public service involved in such a formulation; its effect upon the rights of individuals and groups and upon the ultimate concepts of police service.

CRJ 204 Criminal Justice Management (3) Evolvement of theories of organization and administration of justice agencies; structure of management; relationship of line, staff and auxiliary functions; administration of staff units; planning and research functions; staff conferences and completed staff work; communications; personnel administration; decision making; policies; administrative survey techniques and projects.

CRJ 206 Juvenile Justice System (3) The main focus of CRJ 206 will be family court proceedings. It will explore the circumstances surrounding what happens to a youngster from being taken into custody to adjudication and placement. It will cover the child’s passage from detention through family court proceedings, i.e., intake, probation and referral to community agencies. Types of placements will be explored, i.e., public vs. private institutions, their criteria for accepting children and the need for follow-up counseling and/or family therapy upon the youth’s release and return to society.

CRJ 207 Sexual Trafficking of Children (3) An examination of the devastating effects of child pornography and the sex trade of children in the U.S. and other countries. An attempt to understand the motivation of the pedophile and his use of children for sexual gratification, his chances of being rehabilitated and the possible causes of his behavior. Speakers with special expertise in counseling the offender will make presentations - personnel from the Rape Crisis Center, City and Sheriff’s Department Abused Person Units and others.

CRJ 208 Managing Delinquents in Detention (3) A presentation of methods of modifying and controlling surface behavior of aggressive youth in detention. Students will learn how to communicate with disturbed and confused individuals. The course will also enhance student’s awareness of the complex aggressions which block the channels of communication when a human being is frightened or frustrated. Students will explore methods of controlling the acting out behavior of an incarcerated individual so as to maintain personal dignity and to develop a sense of rapport with the person incarcerated.

CRJ-210 Terrorism and the Criminal Justice System (3) This course introduces the student to the study of terrorism. It will focus on both domestic and foreign varieties of this unique form of organizational crime and its implications for the American criminal justice system.

CRJ 212 Organized Crime and Society (3) A systematic exploration of theoretical and practical issues pertinent to organized criminal activity. The organizational structures of traditional and non-traditional groups are studied as well as the historical background beginning in the nineteenth century. The impact on law enforcement is thoroughly reviewed with special emphasis on illegal drug trafficking. The relationships between drug use and crime is examined from the legal and societal viewpoint. Additionally, the relationship between the political environment and organized crime, including the infiltration of legitimate business, is studied.

CRJ 215 Criminal Law (3) A study of the scope, purpose, definition and classification of crimes. Consideration is given to the more common offenses under the Penal Law. A concern for criminal intent, acts of omission and commission, arrest and search and seizure along with an introduction to the Criminal Procedure Law is emphasized. The rules of evidence and their application to proper law enforcement will also be discussed.

CRJ 216 White Collar Crime (3) An examination of major issues and current problems that are associated with occupational and nonoccupational criminal behavior. Public policy and methods of prevention are explored and a review is conducted of various celebrated investigations which include examples of corporate crime, state authority crime and computer crime.
CRJ 217 Crime and the Media (3) The media has a significant impact on the criminal justice system. This course will investigate the interplay among various aspects of the media and the criminal justice system. Students will have the opportunity in class to examine products of the media that relate to police, courts and corrections. The media's portrayals of a diverse population and the subsequent impact on the functioning of the criminal justice system will be explored. The course will analyze the legal and ethical issues faced by both the media and the criminal justice system in the administration of justice in the United States.

CRJ 218 Drugs and Criminal Justice System (3) An examination of the impact of drugs on the criminal justice system including the police, courts and corrections. The history of drugs and alcohol prohibition will be studied within the context of traditional crime and organized crime. Other topics will include the drug problem in relationship to the crime rate, national criminal justice policy strategies and the infiltration of legitimate enterprises by criminal drug organizations. Students will research relevant topics and report their findings as well as their conclusions based upon their research. This course has a criminal justice focus and will not fulfill the New York State mandate for drug and AIDS education for teaching certification of education majors.

CRJ 221 Community Corrections (3) Designed to explore the origin and development of probation and parole and the implication for the practice of these correctional services in modern day corrections. Emphasis will be placed on the role of these community-based correctional services in the administration of justice and an assessment will be made of their relative effectiveness.

CRJ 222 Institutional Corrections (3) Punishment vs. rehabilitation are explored as students assess the impact of “doing time” in various institutional settings including detention centers, jails and prisons. The impact of institutional life on staff and inmates with emphasis on treatment and/or security will be discussed.

CRJ 231 Principles of Loss Prevention (3) The purpose and scope of programming loss prevention procedures to alleviate losses in industrial, retail and general business operations. Control of internal theft, shoplifting, techniques utilized by shoplifters, shipping and warehousing, criminal law and procedures. An overview of specialized areas and the security procedures involved, E.D.P. areas, Security Clearance Area.

CRJ 232 Industrial Security Theory (3) and philosophy of the administration of industrial security functions. The course includes a study of the application of private security to the industrial field in regard to laws pertaining to the personnel, general security techniques, organization and management of security units.

CRJ 235 Private Investigation (3) Explores the entire scope of procedure and methods necessary in understanding the complex mechanism involved in the field of private investigation. Private investigation will examine the world of the “private eye” and what laws govern these activities. An in-depth study will be made in intelligence gathering, the polygraph, records and reports, undercover work, surveillance, employing photography as evidence and the use of actual case histories to illustrate various techniques available to the private investigator.

CRJ 240 Capstone Course in Criminal Justice (1) This capstone course is the culmination of the criminal justice student's academic experience. It serves to synthesize the knowledge gained from each course taken within the criminal justice curriculum and better prepare the graduate to continue on to upper-division studies in the discipline or for entry-level career positions in the criminal justice system. Among other requirements, the student will develop and prepare a research project that will result in an end of semester presentation to the class. Pre-requisites: Criminal Justice Matriculation, Permission of Instructor and completion of 42 credit hours including all required criminal justice courses and ENG-103, ENG-104, and COM-103.

CRJ 241 Special Investigations (3) Investigate methodology in the field of crime. Special attention is given to the various aspects of homicide investigation. Also covered is the area of organized crime, forgery and white collar crime.

CRJ 243 Criminalistics I (3) The collection, preservation, analysis and interpretation of physical evidence of various types, including latent fingerprints, footprints, tire tracks, tool marks, blood, hair, fabrics, etc.; narcotic identification, fingerprint classification, photography, spectrographic analysis, court presentation and expert testimony. This course is designed to aid in the training of investigators. It does not qualify one as a criminalist or laboratory technician.

CRJ 244 Criminalistics II (3) Concerned with advance microscopic and chemical methods of crime detection. Blood analysis, drugs, blood alcohol, explosives, poisons, ultraviolet and infrared examinations, advance optical and instrumental methods of analysis are covered. Special problems and topics of interest in criminalistics are covered.
CRJ 252 Internship (3) A practicum designed to broaden the educational experience of students through appropriate observational work assignments with governmental agencies and private firms. Students may choose to select an internship from either law enforcement, corrections or community service in related Justice agencies. Pre-requisite: Permission of Instructor.

CRJ 254 Criminal Justice Issues (3) The examination of selected problems affecting various criminal justice agencies by group and individual, oral and written presentations. Divergent and controversial viewpoints will be presented to provoke individual thought and discussion. Students limited to one issues course only. CRJ majors — Permission of Instructor. Final semester sophomores only.

Drafting/Engineering Graphics

FOR MORE INFORMATION, CONTACT THE DRAFTING/ENGINEERING GRAPHICS DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM 143, (315) 498-2442.

GPH 100 Blueprint Reading (2) The course is intended to provide the student with a firm background in reading and interpreting blueprints utilized in most phases in industry. Topics to be covered include drawing standards, line types, projections, drawing formats and ECN’s. Exposure is gained through interpreting mechanical, control, sheet metal and welding drawings. Not open to MET and DRF students as a technical elective. Co-requisite: MET 160 or Permission of Instructor.

GPH 136 Engineering Graphics (3) Fundamentals of descriptive geometry dealing with concepts of points, lines and planes, spatial and vector geometry, and graphical mathematics. Two lecture hours, three laboratory hours.

GPH 136L Engineering Graphics Lab

GPH 151 Electrical Drafting (3) An introductory course in mechanical drafting utilizing electrical components and assemblies. Technical communications and the ability to function in a job-related atmosphere are highlighted.

GPH 151L Electrical Drafting Lab

GPH 161 Engineering Drawing I (3) The areas emphasized in the course are: use of instruments, geometric construction, lettering techniques, drawing techniques, orthographic projection, dimensionalizing and tolerancing. Two class hours, three laboratory hours.

GPH 161L Engineering Drawing I Lab

GPH 162 Engineer Drawing II (3) Considerate problem-solving application in the areas of detailing, sections and conventions, dimensioning, introduction to geometric tolerancing, fasteners, working and assembly drawing. Two class hours, three laboratory hours. Pre-requisite: GPH 161 or Permission of Instructor.

GPH 162L Engineer Drawing II Lab

GPH 171 Design I (4) Design of machine elements: bearing, shafts, gears and hardware. The design of a machine or a machine component is assigned and the practical aspect emphasized. Pre-requisite: GPH 161 concurrently or Permission of Instructor.

GPH 171L Design I Lab

GPH 172 Design II (4) Design considerations, analysis and drawings of tools used in modern manufacturing processes, including jigs, fixtures, die sets, gags and cutting tools. Pre-requisite: GPH 161 or Permission of Instructor.

GPH 172L Design II Lab

GPH 175 Geometric Dimensioning and Tolerancing (2) Using the most recent ASME standards this lecture/discussion-based course will focus on the fundamental principles of geometric dimensioning and tolerancing. Form and function relationships as they relate to manufacturing processes will be discussed, as will the five basic tolerances of form, orientation, profile, runout and location. Pre-requisites: GPH 100 or GPH 161 or Permission of Instructor.

GPH 261 Intro to CAD (3) An introductory course in CAD (Computer-Aided Drafting) utilizing state-of-the-art software. Topics to include the manipulation of the basic drawing commands to construct computer-detailed multi-view drawings with printer/plotter hard copy output. Pre-requisite or Co-requisite: GPH 161 or Permission of Instructor.

GPH 262 Intermediate CAD (3) An extension of Introduction to CAD. This course provides the elements for sectioning, auxiliaries, semi-automatic dimensioning, blocks and inserts and colored layers. An introduction to one-sided printed circuit board layout from schematic diagrams utilizing layers. Pre-requisite or Co-requisite: GPH 261, GPH 151, GPH 162 or Permission of Instructor.

GPH 263 Advanced CAD An advanced course in CAD. Topics to include advanced drawing aids and modes, tablet digitizing, screen and menu customizing techniques and library drawing generation for the digitizer pad. Pre-requisite: GPH 262 or Permission of Instructor.

GPH 270 Solid Modeling (4) A course designed to acquaint students with parametric computer aided design software. Utilizing state-of-the-art software students will be introduced to the manipulation of basic commands necessary to construct three-dimensional models, datum plane creation, extrusions, cuts, sweeps and blends. Pre-requisites: GPH/MET 261 or Permission of Instructor.
Economics

ECO 103 Contemporary Economic Problems (3) A one-semester, non-mathematical course that considers current economic issues from the perspectives of background, implications and strategies for resolution. Topics to be considered will vary each semester, depending upon the current economic situation. Topics will be chosen jointly by students and instructor. Open to all students. Three hours elective credit in Social Sciences. No Pre-requisite.

ECO 203 Intro to Economics-Macro (3) An introductory survey of mainstream theory, with application to real world events and to public policy decisions affecting the allocation of resources and distribution of goods and services. Topics covered include the economists’ way of thinking, supply and demand analysis, consumer behavior, producer behavior, market performance under various market structures, markets for factors of production, public policy and micro-economic issues. Pre-requisite: Math 087/088 or equivalent.

ECO 204 Intro to Economics-Micro (3) An introductory survey of mainstream micro-economic theory, stressing its application to real-world events and important issues of public policy. Topics covered are from the areas of: the economic way of thinking; supply and demand analysis; consumer and producer behavior; production markets; factor markets; international trade; government policy. Pre-requisite: Math 087/088 or equivalent.

ECO 207 International Economics (3) A study of: (1) the theories of trade - comparative advantage and the factor proportions theory; (2) trade policies - tariffs, quotas and subsidies; (3) trade liberalization and trade blocks - EEC and NAFTA; (4) multi-national corporations and labor/capital movements and technology transfers. (5) Exchange rate systems and (6) the impact of trade and monetary arrangements on developing countries will also be studied. Pre-requisite: ECO 203 or ECO 204 or Permission of Instructor.

ECO 209 Money and Banking (3) A study of the nature and functions of money and finance, this course outlines the institutional framework of the American financial system, describes and explains the special roles played within the system by commercial banks and the Federal Reserve System, explores the interrelationships between the monetary sector and the rest of the economy and the ways in which monetary policy may be used to assist in the attainment of society's economic goals. Pre-requisite: ECO 203 or Permission of Instructor.

Education

See – Teacher Education

Electrical Engineering Technology

ELT 100 Fundamentals of Electronics (4) An introductory course in instrumentation and laboratory skills for technology students. Various aspects of electrical circuit measurement techniques are investigated in the laboratory, with emphasis placed on component identification, signal tracing, soldering and troubleshooting. Each student will be required to purchase one electronics kit for assembly in the laboratory, as designated by the instructor. Three class hours and a two-hour laboratory. Co-requisite: MAT 088.

ELT 100L Fundamentals of Electronics

ELT 131 Electronic Circuit Telecommunications (Verizon students only) (4) This course will train students in the application of Ohm’s law, Kirchhoff’s laws, Thevenin’s and Norton’s theorem, and Superposition to the analysis of DC and AC passive circuits, including R-L-C circuits, impedances, phase angles, resonance and transformers. Co-requisite: MAT 106 and CMT 110.

ELT 131L Elec Cir Telecomm (Verizon students only)

ELT 141 Circuits I (4) An introductory course in AC and DC circuit theory. Topics addressed include: review of algebra and trigonometry concepts; scientific and engineering prefix notation; unit conversions; rate of change; graphing; use of the calculator; the sine wave; Ohm’s Law; Kirchhoff’s Laws; R-C, R-L, and R-L-C series circuits; complex numbers; R-L-C parallel circuits; R-L-C series-parallel circuits; Thevenin’s, Norton’s and superposition theorems; mesh and nodal analysis. Three class hours and a three-hour laboratory. Co-requisite: MAT 101.

ELT 141L Circuits I Lab

ELT 142 Circuits II (4) A second-level course in AC and DC circuit theory. Topics addressed emphasize application of concepts from Circuits I (ELT 141) and include; review of network theorems; filters; R-C and R-L time constants; series and parallel resonant circuits; magnetism; inductance and ideal transformer concepts. Three class hours and a three-hour laboratory. Pre-requisite: Completion of ELT 141 with a grade of C or better.

ELT 142L Circuits II Lab
ELT 153 Electronics for Telecommunication
(Verizon students only) (4) This course will train students in the physical principles underlying current carries in semiconductor materials; static and dynamic characteristics of diodes and transistors; biasing methods and concepts of amplification; analysis of basic BJT and FET circuits; frequency response of one- and two-stage amplifiers; troubleshooting; analysis by computer simulation. Pre-requisite: ELT 131 and CMT 110 Co-requisite: MAT 107.

ELT 161 Electronics I (4) Introduction to semiconductor theory, devices and circuits. Voltage and current relationships in diodes, light-emitting diodes and indicators. Diode applications in power supplies and electronic circuits. Discrete and integrated circuit voltage regulators. Basic amplifier concepts and integrated circuit operational amplifiers. Three class hours and a three-hour laboratory. Pre-requisite: ELT 141.

ELT 161L Electronic Circuits I Lab

ELT 215 Program Logic Controllers (4) Designed to introduce students to the basic principles that govern the function and operation of the programmable logic controller (PLC). It focuses on the common input and output devices that are typical in sequential and process control applications. Topics include: PLC applications, logic concepts and ladder diagrams, CPU, memories, input/output devices, safety issues, maintenance techniques, I/O and memory addressing, ladder logic programming language, design of relay operated process and proper installation methods. Three lectures and three hour labs. Pre-requisite: CMT 171, ELT 141.

ELT 215L Program Logic Controllers Lab

ELT 257 Electronics 2 for Telecommunications (4) (Integrated lecture laboratory environment). This course is designed to train students in the analysis and application of advanced electronic circuits. Topics included different amplifiers, stage gain in decibels, input and output impedances, linear IC operational amplifiers, frequency response and Bode plots, active filters, D/A and A/D circuits, oscillators and high frequency amplifiers, troubleshooting of test circuits and analysis by computer simulation. Pre-requisite: ELT 153, MAT 107 Co-requisite: CMT 161.

ELT 258 Advanced Electronics (4) Applications of solid-state devices in systems, emphasizing power and industrial control circuits. Included are thyristors, operational amplifiers, timers, voltage regulators, opto-electronics and motor control. This course may be modified in response to rapid technological changes, to ensure that the most important devices are included. Three class hours and a three-hour laboratory. Pre-requisite: ELT 161.

ELT 258L Advanced Electronics Lab

ELT 260 Independent Study Project (1-4) Any project suitable for individual or small group self study, and approved by the department, may be pursued. Students must be highly motivated and self directive. The instructor will meet weekly with the students and serve as a resource person. Pre-requisite: Variable (Consult department chairperson).

ELT 261 Electronics II (4) Circuit applications of typical discrete and integrated semiconductor devices found in common electronic equipment. Devices studied will include bipolar junction and field-effect transistors, solid state switches, controlled rectifiers and opto-electronic couplers. Three class hours and a three-hour laboratory. Pre-requisite: completion of ELT 161 with grade of C or better.

ELT 261L Electronic Circuits II Lab

ELT 265 Communications Systems I (4) Radio communications circuits and systems, including tuned amplifiers, mixers, amplitude and frequency modulation and transmission, transmission lines and antennas, amplitude and frequency demodulation. Emphasis is on circuits and concepts common to many types of systems. Circuits of AM and FM receiver systems are investigated in the laboratory. Three class hours and a three-hour laboratory. Pre-requisite: Completion of ELT 142 and 261 (or concurrent enrollment in ELT 265).

ELT 265L Communications Systems I Lab

ELT 268 RF Fundamentals for Technicians (4) Deals with basic concepts in radio frequency band. Topics included are: transmission media such as coaxial line and wave guide relationships for impedance, VSWR, gain and loss in magnetic and electric fields and "s" parameters. Basic theory and operation of the spectrum analyzer and network analyzer will be discussed. Experiments related to the slotted line and measurement techniques for passive RF components such as couplers and dividers will be demonstrated. The basic operations of the pin, attenuator, divider and coupler are included in the course. Pre-requisite: ELT 141.

ELT 285 Power Systems I (4) Review of AC circuit concepts including Kirchhoff’s Laws, Vector Algebra, Phasor diagrams, Magnetism and transformer operation. Polyphase systems including three phase generation, wye and delta connections. Three phase power. AC and DC rotating machinery. Three class hours and a three-hour laboratory. Pre-requisite: Completion of ELT 142 with a grade of C or Better.

ELT 285L Power Systems I Lab
ELT 289 Cooperative Education (3) Designed to provide work experience directly related to the student’s field of study. A learning contract, containing specific educational objectives related to the work experience and the student’s field of study is developed by the student and the faculty co-op coordinator. Course requirements include a minimum of 180 hours of work, maintenance of a work journal to record hours worked and duties performed and a final paper. This will allow the student to earn 3 credit hours. The student’s performance will be evaluated by the faculty co-op coordinator on the basis of meeting the objectives in the learning contract and satisfactory evaluations by the employer. A letter grade will be assigned. Pre-requisite: Approval by the ELT department and sophomore standing.

ELT 299 Advanced Topics (1-4) Topics are selected to respond to the particular needs of students and the special preparation needed for career opportunities as they exist at the time of the course offering. Laboratory experience is included if appropriate for the topics. The number of class and laboratory hours is determined by the scope of the topics, with one credit hour for each 15 hours per semester of lecture and one credit hour for 30 to 45 hours of laboratory per semester. Open to sophomore students only. Pre-requisite: Permission of Instructor.

Electronic Media Communications

FOR MORE INFORMATION, CONTACT THE ELECTRONIC MEDIA COMMUNICATIONS DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W150, (315) 498-2321.

EMC 101 Electronic Media: Intro (3) Designed to present an overview of electronic media as public communication. Stresses the importance of broadcasting, cable and satellite communications at the local and national level. Federal regulation and responsibilities of broadcast licenses are studied, as well as the relationship of broadcasting to the audience, advertising and public relations. Guest lecturers from industry, corporate communications and educational broadcasting are scheduled. Open to all students.

EMC 144 Audio/Video Production: An Introduction (4) This course is designed to give the student a basic overview of audio and video production. Theory and terminology are introduced through lecture and hands-on application. The student will be introduced to the skills necessary to operate audio and video equipment in studio settings and begin to develop visual and aural literacy. This course is a requirement for all other Electronic Media Communications production courses. Five lecture/production hours per week. Pre-requisite: EMC majors or Permission of Instructor.

EMC 155 Digital Audio Production (4) This course is intended to give the student a practical as well as theoretical approach to digital audio production. Emphasis is placed on the use of digital audio in sound recording, audio editing, multi-track mixing and audio processing. The student will be exposed to audio production/editing procedures and techniques. Three lectures/two production lab hours per week. Prerequisite: EMC 144, EMC majors only.

EMC 159 TV Studio Production (4) This course stresses the importance of effective aural and visual communication, teamwork, and problem-solving skills necessary for success in the process of television studio production. Television studio production techniques and disciplines are explained, demonstrated and applied. Particular emphasis is placed on developing critical thinking and analytical skills, as they apply to production. This course builds on basic production techniques developed in EMC 144 Audio/Video Production: An Introduction by engaging the students in more demanding assignments and more sophisticated production work. Five lecture/production hours per week. Pre-requisite: EMC 144, EMC majors only.

EMC 160 Radio Station: An Introduction (3) This radio course is designed to introduce the student to the terminology, technology, concepts and structure of radio broadcast stations. Topics covered will include FCC rules and regulations, station organization, sales, ratings, promotions, control room operations, departmental interrelationships, technological applications and industry trends. Prerequisite: EMC 144, EMC majors only.

EMC 169 Video Field Production (3) This course is designed to introduce the student to the technical and creative requirements of single-camera, video field production. Topics include camera operation, lighting, audio recording for field production and linear (tape to tape) editing, as well as all aspects of pre-production, including story development, scripting, shot list and storyboard creation, site surveys and production planning for location field production. Prerequisite: EMC 144, EMC majors only.

Need more information? Check our Web site: www.sunyocc.edu
EMC 190 Internship I (3) This course is designed to provide work experience directly related to the student's field of study. The student, working with the faculty co-op coordinator, will develop a learning contract containing specific educational objectives as they relate to that work experience and the student's field of study. Course requirements include a minimum of 120 hours of work in the student's field of study; maintenance of a daily log which includes hours worked and duties performed; participation in a resume, cover letter, and interviewing workshops; regular meetings with faculty coordinator; and a final work-related project determined by the faculty member. This will allow the student to earn 3 credit hours. Students may take EMC 290 Internship II in a subsequent semester, earning a maximum total of six credits for internship experience. However, the second internship must identify different learning objectives and/or be in a different location. Students will have assistance in obtaining an internship, however the ultimate responsibility of obtaining placement rests with the student. Internships may be paid or unpaid. The faculty coordinator must approve in advance the work experience that will be used to fulfill this requirement. The work experience cannot be used to satisfy the requirements of any other course. No experiential credit based on past work experience will be awarded for this course. A letter grade will be awarded. Prerequisite: EMC 144 and Permission of Instructor, sophomore-level EMC majors only. Students must have a G.P.A. of 2.5 or higher and obtain the recommendation of an EMC faculty member.

EMC 249 Electronic News Gathering: An Introduction (3) This course is designed to introduce the student to the concepts and practices of professional news gathering for electronic media. The role of news in radio and television is explained, with emphasis on identifying and contrasting basic forms of news delivery: 24-hour news, local/network newscasts, breaking news, live updates, etc. Through classroom exercises, students will learn and practice the techniques of determining a story's newsworthiness, researching, copywriting, interviewing, producing, writing to the image and editing a virtual news story. Additional importance will be placed upon ethics and professionalism in electronic news. Prerequisite: EMC 169, EMC majors only.

EMC 251 Sportscasting I (3) This course is designed to present an in-depth study of the world of sports communications - concentrating specifically on fall and winter sports (intercollegiate and scholastic levels). Special emphasis will be placed on football, soccer, ice hockey and volleyball. EMC students will become familiar with the techniques used to research, produce, facilitate, report and analyze sporting events. Special training and actual “hands on” experience in reporting/producing OCC and area college/high school sporting events is scheduled. Guest lecturers from the sports communications field are also scheduled. Prerequisite: EMC 144, EMC majors or Permission of Instructor.

EMC 252 Sportscasting II (3) This course is designed to present an in-depth study of the world of sports communications - concentrating specifically on spring and summer (intercollegiate and scholastic levels). Special emphasis will be placed on basketball, baseball, softball and lacrosse. EMC students will become familiar with the techniques used to research, produce, facilitate, report and analyze sporting events. Special training and actual “hands-on” experience in reporting/producing OCC and area college/high school sporting events is scheduled. Guest lectures from the sports communication field are also scheduled. Prerequisite: EMC 159, EMC majors or Permission of Instructor.

EMC 259 Digital Video Editing (4) This course is designed to enable the student to become proficient in the technical and creative aspects of non-linear digital video editing and its role in the production process. Editing concepts such as story building and pacing, techniques such as continuity and parallel editing and examples of single-camera, post-produced programs are discussed and analyzed. Planning for post-production and media management are emphasized. Three lecture/two production lab hours per week. Prerequisite: EMC 169, EMC majors, or POI.

EMC 260 Radio Station Operations I (3) This course provides the basic principles of contemporary radio station programming, focusing on formatting concepts and strategies, marketing, promotion, production, news operations and the practical applications. Emphasis will be placed on the student's application of programming strategies through the use of OCC Internet Radio. Prerequisite: EMC 160, EMC majors.

EMC 265 Sound Design and Production For Digital Media (3) This course is designed to introduce students to the technical and creative aspects of loop-based audio production and how it is used in many types of digital media productions. Students will analyze and create audio to be used in media projects ranging from radio programming, television/video programming, DVDs and websites. Prerequisite: EMC 155, EMC majors, or POI.

EMC 269 Television News Production (4) This course focuses on the skills necessary to create content and produce a weekly television newscast. Methods of news delivery are analyzed, and students will put into practice the theories learned in EMC 249. Students will conduct effective research, practice effective interviewing techniques, and produce, report and write copy for television news. Students will work in teams to produce...
a live weekly newscast. Emphasis will also be placed on ethics and professionalism, as well as legal consideration, as they pertain to producing and developing electronic news. Five lecture/production hours. Prerequisite: EMC 249 or POI, EMC majors only.

**EMC 270 Radio Station Operations II (3)** This course builds on EMC 260 by offering students hands-on experience in radio station operations where they will continue to develop and apply production and programming skills. Students will also program and operate the college radio station’s automated programming system. They will work in the areas of marketing/promotions, news, sports, commercial/promotional production and music-based entertainment programs. Students will hold management positions at the college radio station. Prerequisite: EMC 260, ENG/JRN 157.

**EMC 275 Producing for Radio (4)** This course is a culmination of audio theory and practical skills learned by students in previous radio courses. Students will produce original programming in the areas of news and public affairs, documentaries, sports, college/community interest and arts and entertainment. Emphasis will be placed on the student’s ability to provide informational, educational and entertainment programming for the college Internet radio station. Three lecture/two production lab hours per week. Prerequisite: EMC 260, ENG/JRN 157.

**EMC 276 Media Streaming (3)** This course is designed to introduce students to the theory and practice of streaming media via the Internet and telecommunications networks. Students will be required to properly encode and compress audio and video to be used in the streaming process. Various types of video and audio file formats are covered, as well as compression standards. The deployment of media servers, live web casting, and multiple media player formats will be discussed. A final project will include the encoding and streaming of audio and video media for a website. Prerequisite: EMC 155, EMC 259, EMC majors or POI.

**EMC 286 DVD Authoring (4)** This course provides a hands-on approach to the conceptualization, design, production and assessment of video projects completed on DVD. The course will focus on strategic planning (including scripting and flow charts), creation of video and audio content, proper encoding of media, file management, creation of interactive menus, proper linking of all media assets within the DVD and outputting projects to a DVD disc. Topics of discussion will include the history, characteristics, various types and user interactivity of the DVD format, as well as various types of digital media files and managing those files on a network. Three lectures/two production lab hours per week. Prerequisite: EMC 259, EMC majors, or Permission of Instructor.

**EMC 289 TV Producing and Directing (4)** This course is designed to build upon and improve the student's skills as a television director, which were developed in Introduction to Audio and Video Production. The development of organizational and people-related directorial tasks is stressed. The aesthetic principles of programming, staging, continuity, and visualization are identified. Emphasis is placed on the correct use of television directing terminology. Production techniques and techniques of directing on-camera talent are explained and demonstrated. Five lecture/production hours per week. Pre-requisite: EMC 259 EMC majors, or Permission of Instructor.

**EMC 290 Internship II (3)** This course is designed for students to complete a second internship to provide additional work experience directly related to the student's field of study. As in EMC 190, the student, working with the faculty co-op coordinator, will develop a learning contract containing specific educational objectives as they relate to that work experience and the student's field of study. Course requirements include a minimum of 120 hours of work in the student's field of study, maintenance of a daily log which includes hours worked and duties performed, completion of an updated résumé and cover letter, regular meetings with faculty coordinator and a final work-related project determined by the faculty member. The second internship must identify different learning objectives and/or be in a different location than the EMC 190 internship. Students will have assistance in obtaining an internship; however the ultimate responsibility of obtaining placement rests with the student. Internships may be paid or unpaid. The faculty coordinator must approve in advance the work experience that will be used to fulfill this requirement. The work experience cannot be used to satisfy the requirements of any other course. No experiential credit based on past work experience will be awarded for this course. A letter grade will be awarded. Pre-requisite: EMC 190 and Permission of Instructor; EMC majors only. Students must have a G.P.A. of 2.5 or higher and obtain the recommendation of an EMC faculty member.

**EMC 291 Television Production Lab I (3)** This course is designed to introduce students to television production through hands-on experience in television production. Students will produce original programming for broadcast on SUNY OCC television station. Prerequisite: EMC 259, EMC majors or POI.

Need more information? Check our Web site: www.sunyocc.edu
Emergency Management A.A.S.

For more information, contact the Emergency Management Department in Whitney Applied Technical Center, Room 230, phone: (315) 498-2425

EMG 150 Principles of Emergency Management (2) This course is intended to provide information that will enable persons just entering the profession or expanding their roles to have the ability to work with emergency management issues. The course provides an overview of the characteristics, functions, and resources of an integrated system and how various emergency management services work together in an integration of resources and capabilities. Emphasis will be placed on how this system is applied to all hazards for all government levels, across the four phases and all functions of emergency management.

EMG 152 Public Safety Critical Incident Management (1) This course provides students with information relevant to public safety forces (fire, police and emergency medical services) roles and responsibilities when responding to an emergency. Additionally, the course provides information dealing with support service agencies and the concerns and roles of private business and local government in supporting public safety forces in emergency situations. The course provides information to encourage cooperation of all groups and agencies at the scene of an emergency, with a key component focusing on the goals and critical tasks of each public safety agency operating at a given scene.

EMG 160 Developing Volunteer Resources (1) This course allows students to learn the necessary skills to be able to make appropriate volunteer assignments, structure programs to maintain or increase the skill levels of volunteers and motivate volunteers to both maintain readiness and operate effectively during emergency situations.

EMG 162 Resource and Donations Management (2) This course is designed to provide Resource Management Coordinators with the knowledge and skills they need to perform resource management functions within the overall framework of the emergency operations center (EOC). This performance-based course is intended to introduce local officials (i.e., representatives of local governments and leaders of local voluntary organizations) to the concept of donations management and their roles and responsibilities in the donations management process.

EMG 170 Public Information Officer Basic Course (3) This course provides students with the skills needed to perform public information duties as they relate to emergency management. The course focuses on the definition of the job of the public information officer. The course assists participants with building the skills needed for this position, such as oral and written communications, understanding and working with the media and the basic tools and techniques PIOs need to do the job.

EMG 178 Emergency Response Planning (3) This course is an essential function of an effective emergency management program and serves as a tool for emergency professionals in improving disaster management and public safety policies. The Emergency Response Planning Course provides emergency management and public safety personnel with the knowledge, skills and ability to develop or enhance their comprehensive emergency management plans. The course will highlight the importance of building an integrated system for emergency planning that uses multi-agency teams to address mitigation, preparedness, response and recovery. Pre-requisite: EMG 150.

EMG 180 Emergency Management Leadership (2) This course is designed to provide students with the skills necessary to lead and influence others in the demanding setting of emergency management by increasing their range of skills in a variety of interpersonal areas: conflict management, use of power group dynamics leadership and influence. Students are taught to clearly identify problems and their root causes so as to be able to determine the appropriate type of decision-making style. Using a suggested process of problem solving, participants will be able to apply creative solutions to both emergency and non-emergency situations, in an emergency management situation.

EMG 182 Basic Incident Command System (1) This course is designed to increase the participants' knowledge and understanding of the Incident Command System. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage an incident through implementing the ICS. The material covered during the course includes an introduction to the principles and features of ICS, organizational overview, incident facilities, incident resources and common responsibilities of key ICS positions.

EMG 184 Emergency Response to Terrorism (1) This course provides the knowledge and skills needed by public safety forces that respond to terrorist acts. The course provides public safety and related support personnel the information to understand terrorism - its root causes and motivations. The course also provides methods to enable students to recognize circumstances indicating a potential terrorist attack and to protect themselves from a variety of potential dangers.

EMG 252 Disaster Response and Recovery Operations (2) This course introduces students to the basic concepts and operations applicable in a disaster environment (particularly for major disasters) and enhance understanding of what the proper roles and responsibilities of various local and state emergency management officials are,
EMG 256 Mitigation for Emergency Managers (1.5) This course addresses the important roles of the emergency program manager or other local government representative in mitigation. It provides the emergency manager direction on how to implement to a locality recognized and accepted national mitigation strategies. The course provides students information helpful in the coordination of public safety agencies, local businesses and professional organizations. Also provided in the course is information on funding mitigation efforts through public and private sources. Pre-requisite: EMG 150.

EMG 262 Intermediate Incident Command System (1.5) This course is designed to increase the participants' knowledge and understanding of the Incident Command System. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage staffing. The material covered during the course includes organization and staffing, organizing for incidents and events, incident resource management, air operations and incident and event planning. Pre-requisite: EMG 182.

EMG 270 Multi-Hazard Emergency Response Planning for Schools (1) This course will provide participants with the basic information and tools needed to develop effective plans for the wide array of potential emergencies that schools may face. Participants completing the course will be able to explain the importance of effective planning to others and lead individuals in their schools and community through the process of developing an effective multi-hazard program. Pre-requisite: EMG 178.

EMG 278 Emergency Operations Center (EOC) Management (1.5) This course provides students with the knowledge and skills they need to design, initiate, build and operate an emergency operations center. The curriculum is designed using a performance-based approach, which emphasizes learning activities that are easily transferable to the job.

EMG 280 Emergency Exercise Program Management (3) This course is intended to provide participants with the knowledge and skills to develop and conduct disaster exercises that will test a community's emergency operations plan and operational response capability. Pre-requisite: EMG 150.

EMG 282 Advanced Incident Command System (1.5) This course is designed to increase the participants' knowledge and understanding of the inherent flexibility of the Incident Command System to manage major or complex incidents. Utilizing lectures and small group activities, participants will acquire the ability to organize and manage major or complex incidents. The material covered during the course includes command and general staff duties and responsibilities, unified command, major incident management and area command structures. Pre-requisite: EMG 262.

EMG 284 Terrorism Response Planning (2) This course will help emergency planners, first responders and others at all levels to review their preparedness efforts and response capabilities to a terrorist incident. It will also assist participants in the ongoing re-evaluations of their threats, their current emergency operations plan and the implications of a terrorist incident on continuity of critical services and long-term recovery. Pre-requisite: EMG 178.

English


ENG 099 Basic Composition (0, 3eq.cr.) A developmental writing course for students who need more individualized instruction and intensive practice in composing and editing short expository prose than is provided in ENG 103. Pre-requisite: Standard diagnostic tests, verbal scores, writing samples and/or recommendation of instructor. This course does not satisfy freshman English credit requirements. (Additional tutoring in the Writing Skills Center may be required.).

ENG 103 Freshman Composition I (3) Develops the skills and forms necessary for writing college-level expository prose. Methods for developing content, organizing information and ideas, and presenting that material to a reader clearly, concisely and coherently, will be taught. Various readings may be used as a source of models and ideas. Pre-requisite: Satisfactory diagnostic tests, verbal scores, and/or writing samples.

ENG 104 Freshman Composition II (3) Teaches students to comprehend, respond to and use the ideas of others in their own writing. Skills such as analytic and critical reading and writing, summarizing and paraphrasing are developed through the study of literature. Term paper form will also be taught. Pre-requisite: ENG 103.

ENG 121 Intro Journalism/Mass Media (3) Designed to increase students' awareness of the mass media and its impact on society: development of the media, including writing types and styles; ethical and social problems; study and practice of journalistic writing; analysis of major news media with emphasis upon newspapers. Pre-requisite: ENG 103.
ENG 123 Newspaper Production (1) Familiarizes students with all aspects of newspaper production and provides practical application of journalism theories with participation in the activities of the student newspaper. Students attend weekly meetings, write articles, etc. Includes one and one-half hour seminar/discussion.

ENG 157 Electronic Media Writing (3) This course helps students to master the diverse writing styles and formats used in writing for broadcast on radio, television and cable. These include public service announcements (PSAs), station IDs, promotional announcements, script formats, commercials, news copy and program materials. Emphasis is on developing broadcast copy style, distinguishing words directed toward the ear and the eye. Prerequisite: ENG 103.

ENG 203 World Literature I (3) The course sequence (203-204) chronologically surveys major works of Western literature and its relationship to the cultural trends of the period. A wide and varied range of readings is available to the student. The survey should lead to an awareness of the objectives and forms of literary art and to a knowledge of Western culture as great writers have mirrored it. Course covers the period from the Ancients to the Renaissance. Pre-requisite: ENG 103, ENG 104.

ENG 204 World Literature II (3) A continuation of ENG 203 from the Renaissance to the present, which may include works from Petrarch, Shakespeare, Cervantes, Flaubert, Sartre and the moderns. Either semester may be taken independently. Pre-requisite: ENG 103, ENG 104.

ENG 206 Creative Writing/Poetry (3) An intensive introduction to the fundamentals of writing and revising original poetry. Techniques used by traditional and contemporary poets will be studied. A brief introduction to prose and dialogue may also be included. Pre-requisite: ENG 103, ENG 104 and Permission of Instructor.

ENG 207 Creative Writing/Fiction (3) A course for the writing and revision of original fiction, both segments and complete stories. The styles and techniques of classical and contemporary writers will be studied. A brief introduction to dialogue and poetry may be included. Pre-requisite: ENG 103, ENG 104 and Permission of Instructor.

ENG 208 Creative Writing/Drama (3) An introduction to writing and revising original scripts for the stage, including dialogue, character development, elements of dramatic scenes and fundamentals of plot structure. Includes critical reading and analysis of classic and modern drama and attendance at several area professional theater performances. Students should be able to type. Pre-requisite: ENG 103, ENG 104 and Permission of Instructor.

ENG 209 Dramatic Literature I (3) A study of the early development of dramatic literature and its social relationships. First semester covers major contributions from Aeschylus to Ibsen. Pre-requisite: ENG 103, ENG 104.

ENG 210 Dramatic Literature II (3) A study of modern drama from Ibsen to the present. Either semester may be taken independently. Pre-requisite: ENG 103, ENG 104.

ENG 211/212 Intermediate Composition (3) Instruction in precis and research writing with emphasis on the expository techniques of analogy, analysis and definition. Pre-requisite: ENG 103, ENG 104.

ENG 213 Children’s Literature (3) Examines literature for children from the preschool level through the middle school level. Topics covered include history and development, research skills, criticism, major authors and major forms: poetry, picture books, fables, myths, legends, sacred writings, epics and romances, folktales (fairy tales), fiction and non-fiction. Emphasis is on the teaching of the knowledge and critical skills needed to locate, comprehend, analyze, evaluate and present the literature. Pre-requisite: ENG 103, ENG 104.

ENG 215 Mythology (3) The first concern of the course is the survey of Greek and Roman mythologies, their origin, development, interpretation and use by both classical and modern writers. In addition, some attention is given to Norse and Celtic mythologies, their relationships to classical mythology and use in British literature. Pre-requisite: ENG 103, ENG 104.

ENG 216 Celtic Culture (3) Celtic culture interacts with English tradition at many levels. This course introduces the student to that culture (language, literature, archaeology, art, music) of both the ancient and modern Celtic-speaking lands: ancient Britain and Gaul, modern Ireland, Scotland, Wales, Brittany, Cornwall and the Isle of Man. Special attention is given to extensive medieval literary texts, the Tain Bo Cualnge of Ireland and Mabinogi of Wales. Course work includes directed, individual study projects. Pre-requisite: ENG 103, ENG 104.

ENG 217 Science Fiction (3) A chronological examination of science fiction from early 19th Century to the present, with brief references to classical precursors. The themes of science fiction will be explored through various literary genres. Pre-requisite: ENG 103, ENG 104.

ENG 219 Acting I/Drama Performance (3) An introductory course in the theory and techniques of acting. Each student will participate in various training techniques, including pantomime, acting exercises, improvisations, analysis and interpretation of roles, freeing the imagination, developing concentration, voice production, body move-
ment, scene and character study. Each student will rehearse and perform in scenes consisting of one, two or more characters. Writing character analyses and critiques will also be taught. Pre-requisites: ENG 103, ENG 104.

ENG 221 English Literature I (3) A critical and historical survey of English literature from Beowulf to the Romantic Age. Although the literature is presented historically, the central emphasis of the course is on the works themselves. Pre-requisite: ENG 103 and ENG 104.

ENG 222 English Literature II (3) A critical and historical survey of English literature from the Romantic Age to the present. Either semester may be taken independently. Pre-requisites: ENG 103 and ENG 104.

ENG 223 American Literature I (3) A critical study of major American writers of the 19th Century. The literary works are viewed in their relationship to the cultural movements and intellectual history of American civilization. Pre-requisites: ENG 103 AND ENG 104.

ENG 224 American Literature II (3) A study of major American writers of the 20th Century. The literary works are viewed in their relationship to the cultural movements and intellectual history of American civilization. Pre-requisites: ENG 103 and ENG 104.

ENG 225 Black American Literature I (3) A reading, writing and discussion course which studies literature written by black American authors. Students read poetry, novels, short stories and plays in order to develop their critical appreciation of literature, as well as understand the unique condition of black people in America. The first semester surveys literature written by black authors from the slave poets (1750's) to the modern renaissance of Afro-American literature (1950's). Pre-requisites: ENG 103 and ENG 104.

ENG 226 Black American Literature II (3) A writing, reading and discussion course which studies works by modern black American authors of the 1960's to the present. Though the main focus of the course is on understanding literature in general, the themes of the works emphasize the special condition of black people in America. Either semester may be taken independently. Pre-requisites: ENG 103 and ENG 104.

ENG 228 The Novel I (3) A study in chronological sequence of selected works of the chief European and English novelists of the 17th and 18th centuries, with emphasis on the evolution of the novel as a form. Students will read the works of individual authors and acquaint themselves with the social and political changes of the relevant period. Pre-requisites: ENG 103 and ENG 104.

ENG 229 The Novel II (3) A study of major European and English novelists of the 19th and 20th centuries. Emphasis is on the evolution of the novel as an art form and the relationship of the novel to its social, ideological and historical setting. Either semester may be taken independently. Pre-requisites: ENG 103 and ENG 104.

ENG 230 Women's Literature (3) A reading, discussion and writing course that covers several time periods and genres to focus on the unique problems and accomplishments of women writers. Analyses of literary works will focus on gender and the cultural climate in which the studied writers worked. Pre-requisites: ENG 103, ENG 104.

ENG 233 Shakespeare I (3) Concentrates on Shakespeare's early development as a dramatic poet and will be concerned with the evolving poetic techniques of "apprentice" plays. Sonnets will be included. Also, those dramatic techniques Shakespeare begins to master, whether in tragedies, comedies, histories or problem plays, will be studied. Shakespeare's themes and his ever-maturing expression of them will form the major aspect of the course. Pre-requisites: ENG 103 and ENG 104.

ENG 236 Film Poetics: Talk (3) A study of the period of the "talkies" as a contemporary art form, concentrating on its uniqueness as well as its relationship to existing literary genres. Pre-requisite: ENG 103, ENG 104.

ENG 239 American Folklore (3) This course investigates types of folklore found in the United States and explores areas such as definition, classification, origin, variation and use and application to modern culture. Students are urged to investigate their ethnic heritage and traditions. Representative texts: Momaday, N.S., The Way to Rainy Mountain; Paredes, A., With His Pistol in His Hand; Thompson, S., Tales of the North American Indians. Pre-requisite: ENG 103 and ENG 104.

ENG 241 American Autobiography as Literature (3) A survey of American autobiographies during the nation's 200 years. The class will examine the cultural issues raised by each autobiographer's quest for identity, and investigate the ways autobiographers shape their lives in words. Pre-requisites: ENG 103 and ENG 104.

ENG 245 New Immigrant Literature (3) This course examines literature reflecting the American experience of immigrants and expressing their search for roots and cultural identity, both in the U.S. and in journeys back to their homelands. The class will explore cultural issues raised in fiction, poetry, drama and memoirs of writers from a number of countries. Discussion and writing assignments will focus on both analyzing the literature and on examining the students' experiences. Pre-requisite: ENG 103-104.

Need more information? Check our Web site: www.sunyocc.edu
ENG 250 Voices of Diversity (3) Studies of the pride and prejudice encountered by minority groups in American culture, as expressed in literature and film. At least three of the following “voices,” their songs and their outcries, will be heard each semester: the gay and lesbian voice, the Asian-American voice, the Hispanic voice, the Jewish voice, the new immigrant voice, the Native-American voice, the voices of the homeless, the drugged, the disenfranchised and other minority voices. Pre-requisite: ENG 103 and ENG 104.

ENG 251 Media Writing (3) Elements of writing news stories; style and structure; news sources; types of stories. Discussion and criticism of various kinds of writing for the media, with emphasis on newspapers; consideration of publicity writing. It is recommended that students take ENG/JRN 121 first. Pre-requisite: ENG 103 and ENG 104, and ability to type.

ENG 252 Non Fiction/Popwriting (3) A survey of contemporary attempts to use the techniques of fiction writing in works of nonfiction and an examination of some outstanding examples of journalistic feature writing, magazine writing and criticism. Students will have the choice of writing critical reviews or doing non-fiction related writing. Includes study of one relevant documentary motion picture and one full-length non-fiction work. Pre-requisite: ENG 103 and ENG 104.

ENG 259 Report/Technical Writing (3) A course that provides training in the preparation of professional and technical written reports. Attention is paid to the development of the student’s ability to design a coherent report, to organize ideas, and to understand and use specific forms, stylistic conventions and standard language. Pre-requisite: ENG 103 and ENG 104.

ENG 270 American Nature Writing (3) American Nature Writing examines themes in nature writing in fiction, non-fiction, poetry, drama, and film. The approach is essentially chronological with studies that focus primarily on nineteenth and twentieth century American writing including regional investigation of the Adirondack and Catskill areas on New York state. The course will target ecology related issues. Pre-requisites: ENG 103 and ENG 104.

ENG 276 American West/Film Study (3) Can be taken either for English or History credit. Studies the settlement of the American West as it has been reflected in popular literature and films, focusing on the distinction between the actual frontier experience and the way that experience has been presented to us in our entertainment. Special emphasis on the Plains Indians, the mountain men, and the cowboys. Pre-requisite: ENG 103, ENG 104.

ENG 282 Introduction to Critical Theory (3) The goal of the class is to introduce students to several schools of critical theory widely used in literary analysis, including deconstruction, post-colonialism, feminism, Marxism, semiotics and psychoanalysis. By the end of this course, students will be familiar with the major arguments and questions of the schools studied. This coverage will include where ideas intersect across schools, key debates at the heart of critical analysis and practical applications. Most usefully, students will complete the course by performing analytical tasks in at least two critical schools. Prerequisites: ENG 103 and ENG 104.

ENG 298 Literature: Topics (3) Subjects and materials will vary with faculty interest and student demand. Credit hours and general course content will be established beforehand by the faculty member offering the course in consultation with other members of the English department. Pre-requisite: ENG 103 and ENG 104.

WSC 099 Writing Skills Tutorial see page 237

English as a Second Language


ESL 091 Academic Listening (0) Students will receive instruction and intensive practice in listening to authentic academic materials derived from a number of subject areas. The focus will be on improving comprehension of lecture material, expanding vocabulary and taking effective notes in simulated classroom situations. Pre-requisite: LOEP Placement Test. For ESOL students only.

ESL 093 Academic Reading (0) This course is designed to help speakers of other languages learn to navigate college-level English language textbooks. Students will be introduced to strategies to help them identify main and sub-points in a text, how to use a text for test-taking purposes and how to read charts and graphs. Special attention will be paid to pronunciation and comprehension of vocabulary. Materials used in the class will be drawn from across disciplines Pre-requisite: LOEP Placement Test. For ESOL students only.

ESL 115 English as a Second Language II (3) Designed for non-native speakers of English. Emphasis is on building verbal English skills and in using standard English as a written medium. Focus is on developing sentences and paragraphs that are organized, grammatical and fluent. This course does not satisfy Freshman English requirements. For ESL students only.
ESL 116 Composition/International (3) A course in short composition for native speakers of other languages, with emphasis on individualized instruction, paragraph development and organization, intensive practice in the proofreading skills required of English grammar and attendant English vocabulary development. Pre-requisite: ESL 115 or Placement Test.

Engineering Science

ENS 201 Digital Logic Design (4) An introductory course in digital logic designed for Electrical and Computer Engineering students. Topics include: number systems, Boolean algebra, minimization of Boolean expressions, combinational and sequential networks, state machine design and networks for arithmetic operations. Pre-requisite: MAT 161 or Permission of Instructor. Co-requisite: ENS 207.


ENS 210 Electrical Circuit Analysis (4) A first course in basic circuit theory. Topics covered include: circuit definitions, volt ampere relationships for circuit elements, Kirchhoff’s laws; resistive circuit analysis including loop and nodal analysis, network theorems; transient behavior of R-L, R-C, and R-L-C circuits; sinusoidal steady-state analysis and phasors; introduction to active devices such as transistors and operational amplifiers and applications of network theorems to circuits with active devices. Pre-requisite: PHY 205.

ENS 212 Mechanics of Materials (3) First course in the development of the mechanics of deformable bodies, for engineering students. Topics include: theories of stress and strain, deformations, Hooke’s law; axial loads, shearing loads, bending loads, Mohr’s Circle, shear and bending moment diagrams, elastic stability and deflection of beams. Pre-requisite: ENS 207.

Environmental Technology

ENV 101 Intro to Environment Tech (4) This course is an overview of the basic information needed to understand the application of the various scientific disciplines associated with Environmental Technology with an emphasis on the geologic aspects. Subjects covered will include: population and growth; governmental processes; hazardous materials and their health effects; basic ecology; soils; air and air pollution; water and water pollution; non-hazardous, hazardous and nuclear wastes; pollution prevention and waste minimization. This course will fulfill the requirement for the geologic option in Environmental Technology and has applications to any of the other subdivisions in the Environmental Technology program. This course consists of three, one-hour classes and one, three-hour laboratory per week.

ENV 101L Environmental Tech Lab

ENV 102 OSHA Training Occupational Safety and Health Principles (3) An introduction to the basic principles of occupational safety and health and OSHA regulation compliance for employers/employees in general industry. Using discussions, textbook and case studies, students will review the Occupational Safety and Health standards CFR Part 1900-1910 for general industry and the requirements for compliance in the key fourteen areas of safety. Topics covered will include OSHA recordkeeping, safety inspection methods, accident investigation, review of the ergonomic standards, personal protective equipment standards, hazard communication requirements and the Right to Know, machine safeguarding compliance, power and hand tool safe work practices, environmental management including chemical hazards review, emergency planning, industrial hygiene basics for chemical, physical and biological hazards; confined space procedures, materials handling and storage, electrical safety and fire safety. The successful student will receive a 30-hour OSHA General Industry Course certificate. This course fulfills the requirement for the Environmental Technology degree option but does not fulfill a science elective requirement. Three class hours per week.

ENV 103 Intro to Geographic Information Systems (3) This course introduces the hardware and software components of a Geographic Information System and reviews GIS applications. Students learn the use of the ArcView for geographic data conversion, spatial analysis and map composition. Topics include GIS hardware components, typical operations, products/applications and basic GIS analysis. Pre-requisite: CIS 100, MAT 141 or Permission of Instructor.

Need more information? Check our Web site: www.sunyocc.edu
FPT 111 Firefighting I (3) This course will introduce the student to basic firefighting techniques and equipment. The course will follow the National Fire Protection Association 1001 Level I Standard. The student will be required to successfully complete both written and practical national accreditation exams.

FPT 112 Firefighting II (3) This course will introduce the student to advanced firefighting techniques and equipment. The course will follow the National Fire Protection Association 1001 Level II Standards. The student will be required to successfully complete both the written and practical national accreditation exams.

FPT 121 F D Supervisor (3) This course will follow the guidelines of the National Fire Protection Association 1021 Levels I and II Fire Officer Training and Professional Qualifications. Supervision, motivation, leadership, discipline, communication and problem solving will be studied individually and in-group activity. Pre-requisite: Permission of Instructor.

FPT 141 F D Instructor (3) This course will focus on the information and skills necessary for fire service instructors to meet the requirements of NFPA 1041 Levels I and II. Beginning with analysis of the challenges, safety issues and legal considerations fire instructors will face, students will consider dimensions of the learning process as well as strategies and approaches for planning, delivering, managing and evaluating fire service training.

FPT 150 Intro to Fire (3) A survey course dealing with the broad field of fire suppression. Included are statistics of fire loss, agencies involved in fire protection, basic organization and functions of a fire department, private fire protection, fire prevention methods and a review of current and future fire protection problems.


FPT 152 Fire Tactics (3) Deals with the effective utilization of manpower, equipment and apparatus. Emphasis will be placed on fire planning, fire ground organization, large fire tactical problems, command functions, utilization of staff personnel, communications procedures, water supply problems and strategic considerations of community protection during large fires or major emergencies. Pre-requisite: FPT 150.

FPT 153 F D Legal Aspects (3) A study of the police power: considerations of liability, negligence, rights and responsibilities of fire department members while performing their duties. The law of arson and its specific application, an examination of the various court systems. A study of the See v. Seattle decision and its effect on fire prevention activities.

FPT 155 Hazardous Materials (3) A study of the chemical and physical characteristics of hazardous materials such as explosives, flammable and combustible liquids, oxidizing and corrosive materials, compressed gases and radioactive materials. Emphasis will be placed on storage, handling and fire control procedures. Pre-requisite: FPT 150 or Permission of Instructor.

FPT 156 Hazards and Control (3) A study of common and special fire hazards of both the causative and contributory types. Identification and evaluation of degree of severity are stressed, together with appropriate means of control of hazards. Relevant local and national codes and standards are emphasized.

FPT 157 Fire Hydraulics (3) A course in incompressible fluids covering principles of fluid statics and dynamics, pipe friction, flow measurements, orifice calculations, pumps and other hydraulic devices. Applications are related to fire protection systems and equipment. Public water system design with reference to American Insurance Association standards will be covered.

FPT 158 Chemistry for Fire (3) A study of general chemistry from the viewpoint of hazardous material. Aspects of combustion are studied in detail. A Prerequisite for advanced Fire Science course dealing with hazardous materials. No laboratory. Evenings only.

FPT 159 Chemistry for Hazardous Materials (3) A study of general chemistry from the viewpoint of hazardous materials. Aspects of combustion are studied in detail. Pre-requisite for advanced Fire Science course dealing with hazardous materials. No laboratory. Evenings only.

FPT 160 Physics for Fire (3) A one-semester study of selected topics in general physics for students enrolled in the Fire Science curriculum. Includes topics in mechanics, fluid mechanics, electricity, heat. No laboratory. Three class hours. Pre-requisite: MAT 101.
FPT 162 Intro to Safety (3) A survey course covering a wide range of safety topics applicable to business, industry, construction and institutions. Included are the history and objectives of the safety profession; specific activities such as hazard evaluation, accident analysis and record-keeping; and specialized topics such as material handling, workers compensation, fire protection and industrial hygiene. The course will enhance the knowledge of those with limited experience in safety while providing a basic understanding of the role of the safety profession for those with no experience.

FPT 163 Safety Management (3) This course follows the latest guidelines of the National Fire Protection Association (NFPA) Standard 1500 for Fire Department Occupational Safety and Health and NFPA Standard 1521 for Fire Department Safety Officer. It is designed to provide an overview of the basic concepts of Modern Safety Management Systems that are used to develop and maintain an effective safety program. It will aid present and future safety managers in developing a formal safety program. In particular, the following sections are covered: Introduction, Basic Safety Concepts and Methods, Principles of Safety Management, and Special Techniques, Problems and Auxiliary Functions. The students will prepare class assignments to reinforce their understanding of the concepts presented and gain actual experience in developing a formal Safety and Health program.

FPT 164 Industrial Hygiene (3) Covers the fundamentals of industrial hygiene and occupational safety. Provides basic information on the recognition, evaluation and control of hazardous chemicals and agents in the work place. Topics cover the measurement of hazardous materials in the work environment, toxicology, responses to toxic agents, ventilation, noise, government regulations, medical surveillance and protection equipment.

FPT 250 F D Administration (3) A study of the administrative aspects of Fire Department operation. Included for study are basic administrative and management procedures, personnel administration, budget keeping, record systems, operational study techniques, public relations, line and staff functions, supervisory responsibilities and related subjects. Emphasis will be placed on current administrative problems and methods of developing solutions to these problems. Pre-requisite: FPT 150.

FPT 251 Fire Systems (3) A study of fire detection and extinguishing devices and systems of both automatic and manual types. Included for study are fire extinguishing agents, portable extinguishing equipment, fixed systems of various types and detection and signaling systems. Stress will be placed on the operating characteristics, advantages and limitations, and methods of inspection and testing.

FPT 252 F D Investigation (3) This course deals with the proper methods of investigating fires, of both the accidental and incendiary types. The fundamentals of arson investigation are covered including handling of evidence, liaison with the police services in criminal fires and interrogation of witnesses. Also included are use of photography and scientific aids to investigation. Pre-requisite: FPT 150 or Permission of Instructor.

FPT 253 Fire Prevention and Inspection (3) This course deals with the establishment of an effective community fire prevention program. Included for study are the organization of a fire prevention bureau, necessary codes and ordinances, establishment of an effective inspection program, record keeping procedures, handling of orders and complaints and development of an adequate public education and information program.

French

See MODERN LANGUAGES - FRENCH

Food Service Administration

FOR MORE INFORMATION, CONTACT THE BUSINESS ADMINISTRATION DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W324, (315) 498-2435.

FSA 0 Work Exp Verifica - 400 hrs.

FSA 100 Food Service Sanitation (1) This course has been designed and approved by the National Restaurant Association Education Foundation so that students may become certified in Sanitation and Safety. The course is an intensive study of proper sanitation and safety through purchasing, receiving, storage, preparation and service.

FSA 102 Basic Nutrition (3) Basic principles of nutrition in regard to energy, protein, mineral and vitamin requirements. Study of adequate diets and dietetics in relation to general health and diseases and the food requirements for all ages from prenatal to adult years. Optimum diets and diets of various national, social and economic groups are studied. Three class hours.

FSA 103 Basic Food Preparation (4) Students are introduced to the fundamentals of basic food preparation for hotels, restaurants and institutions. Included is a history of the culinary arts, exposure to sanitation, hygiene and safety standards, operation of equipment and cooking procedures. Demonstration of the preparation of foods will be provided by the instructor followed by student preparation in such categories as hot foods, cold foods and baking. Pre-requisite or Co-requisite: FSA 100.
FSA 104 Quantity Food Preparation and Service (4) Designed to elaborate on the techniques of food preparation and service. Emphasis will be placed on practical application of cooking techniques and dining room service for various types of food service facilities. Students will function in all positions of employment, gaining skills in such areas as quantity food production, menu development, waiter/waitress service, food estimation, intermediate management responsibilities, inventory principles and food production systems analysis. Pre-requisite: FSA 100, FSA 103, or Permission of Instructor.

FSA 107 Cooking Basics (3) This course is designed to provide content information and skill practice in the basic fundamentals of cooking and baking for non-majors. Areas of cookery to be covered are: baking: cookies, desserts and bread products; hot food preparation: vegetables, soups, stews, sauté, stir fry, pasta and grains. Nutritional food selection, menu planning and the cultural influences on the American diet will also be emphasized. A lab fee is required. This course is not open to students matriculated in the Food Service Administration/Restaurant Management, Hotel Technology or Professional Cooking Curricula. FSA 107 is considered a general elective.

FSA 201 Food Service Management (3) A continuation of the study of management functions as they relate to the food service industry. This second-level course covers the principles of personnel management and product merchandising necessary for the successful operation of food service facilities. Pre-requisite: BUS 230 or Permission of Instructor.

FSA 202 Food Service Cost Controls (3) A detailed study of how to set up and maintain cost control systems. The course focuses on important areas such as how to gather and use cost control information, profit planning and the economics of the food service industry. Pre-requisite: BUS 102 or BUS 105.

FSA 204 Purchasing, Storage and Handling (3) A study of the fundamental principles and practices of purchasing, storing and handling of food items and supplies needed in restaurants, hotels and institutions. The student will acquire working knowledge of such concepts as standards, grades, specifications, methods of ordering, requisitions and the use of production records, proper receiving procedures, storage methods, issuing, proper temperatures and holding items.

FSA 206 Diet Therapy (3) A continuation of the study of nutrition. The student will develop an understanding of the factors which make dietary modifications necessary for the treatment of disease; the principles of calculation, preparation, and service of modified diet; and the role of the dietitian in relation to total dietary care of an individual. Pre-requisite: FSA 102.

FSA 207 Menu Planning and Equipment Selection (3) Designed to provide the student with the knowledge and skills necessary to properly plan a menu and the physical food service layout to produce and serve that menu. Topics to be covered will relate to traditional, specialty and “trendy” menu types along with the proper production and service layout. The student will create a business plan for establishing a food service operation.

FSA 210 Catering and Advanced Culinary Arts (4) This course is designed for students who have successfully completed a basic food preparation principle course. The course will provide the fundamentals for operating and working in a catering organization. Through the operation of an on-campus curriculum based catering organization, the student will rotate through all positions within a catering business. Students will also develop skills in special areas of food preparation such as hors d’oeuvres, baking and pastry. American and International cuisines. Prerequisite: FSA 100, FSA 103 or Permission of Instructor.

FSA 212 Creative and Functional Culinary Arts (1) This culinary arts course will consist of lecture, demonstration and hands-on work by all students. Topics to be covered are the use of key main ingredients in the preparation of appetizers, soups, salads and entrees. Important points of mise en place, production issues, equipment selections and use, taste, color and selection of appropriate ingredients to properly present his/her culinary creation. Pre-requisite: FSA 103, or advanced level culinary skills.

FSA 214 Patisserie I (1) This culinary arts course teaches concepts, skills and techniques for preparing dessert items. Topics to be covered include: individual pastries and desserts, decorative chocolate and sugar, pate choux and finishing of cakes. A materials fee will be charged. Pre-requisite: FSA 103, or advanced level culinary skills and Permission of Instructor.

General Studies

For more information, contact the General Studies Department in the Academic Building, Room A293, (315) 498-2332.

GEN 152 Human Adjustment (3) A learning experience through which students may derive a better understanding of themselves, their relationships to others and how they adjust to their environment. Students learn about the process of adjustment and are introduced to concepts and skills that promote adjustment. Current theories in psychology provide the framework for discussion of topics that include self concept, identity, personality, aging, sex role, stress and health and maladjustment.
GEN 154 Comp/Vocation Plan (3) Designed to introduce students to methods of occupational planning and to expose them to available career choices. Integrated concepts include an evaluation of individual capabilities, preferences and goals.

Geography
FOR MORE INFORMATION, SOCIAL SCIENCE DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A385, (315) 498-2301.

GEG 101 Intro to Geography (3)
GEG 203 Economic Geography (3) Economic Geography investigates how the global economic system works within a spatial framework. It focuses on the production, distribution and consumption of wealth in society and why wealth is not evenly distributed globally, regionally and locally. Topics covered include the shift from command economy to market economy in the former communist bloc; the American era of Fordism and the dollar; the shift to flexible specialization/production and its impact on laborers today; and the new space economy dominated by strategic alliances, sourcing, free trade zones and trading blocs. A global perspective will be used to discuss the topics in the course.

Geology
FOR MORE INFORMATION, CONTACT THE CHEMISTRY AND PHYSICAL SCIENCE DEPARTMENT IN FERRANTE HALL, ROOM F353, (315) 498-2432.

GEO 103 Physical Geology (4) An introduction to the study of the earth, the relationship of earth materials and the processes acting upon and within our planet. Consideration is given to rocks and minerals, structures and deformation of the Earth's crust, earthquakes, volcanism and the work of the wind, running water, ground water, the oceans and glaciers upon the Earth's surface. This course, together with GEO 104, satisfies the sequential laboratory science requirement of the Math-Science curriculum and also satisfies the requirements of those curricula demanding science or laboratory science courses. Three one-hour lectures or equivalent and one three-hour laboratory per week. No Pre-requisite.

GEO 103L Phys Geology Lab

GEO 104 History Geology (4) A detailed study of the Earth's geologic history relative to the development of continents and life forms, includes study of biologic evolution and geotectonics. Stratigraphic principles are utilized in the interpretation of geologic history. Laboratory includes work with fossils and geologic maps. Field trips emphasize regional geology. It is intended that this course follow GEO 103, and taken in this way satisfies the sequential laboratory science requirement of the Math - Science curriculum. It also satisfies the requirements of those curricula demanding science or laboratory science courses. Three one-hour lectures or equivalent and one three-hour laboratory per week. Pre-requisite: GEO 103 or GEO 105 or GEO 106 or Permission of Instructor.

GEO 104L Hist Geology Lab

GEO 105 Oceanography (3) Introductory survey of oceanography relating the physical, chemical, geological, biological, meteorological and engineering aspects of the field. This course satisfies the science elective requirement of the Math-Science curriculum and also satisfies the science requirement of those curricula which require science. Three class hours or equivalent per week. No Pre-requisite.

GEO 105L Oceanography Lab (1) Includes investigation of ocean waters in terms of physical and chemical properties and the interactions of the water on air, sediments, coastal areas and life forms. This course is intended for those who wish to deepen their understanding of oceanography and/or who have a laboratory science requirement to satisfy. One three-hour session per week. Pre-requisite/Co-requisite: GEO 105.

GEO 106 Environmental Geology (3) Introduction to the everyday geological problems of our world community, topics which are covered include population growth, natural resources, water pollution, waste disposal, energy sources and environmental health hazards. Selected other topics of concern are earthquakes, landslides and flood dangers. The course satisfies the science elective requirement of Math-Science curriculum and also satisfies the science requirement of those curricula which require science. Three class hours or equivalent per week. No Pre-requisite.

GEO 106L Environ Geology Lab (1) Application of geological tools to the solution of environmental problems. Use of maps and aerial photographic interpretation and other analytical methods in seeking data on environment. Field trips include trips to local environmental problem and industrial sites. This course is intended for those who wish to deepen their understanding of environmental geology and/or who have a laboratory science requirement to satisfy. One three-hour laboratory per week. Pre-requisite or Co-requisite: GEO 106.
GEO 205 Hydrology (4) This course covers the source, distribution, movement and sensitivity of surface, soil and groundwaters in a geologic context. Topics include surface water, vadose zone and groundwater hydrology (both regolith and fracture flow) along with some groundwater modeling. The lab experience focuses on field trips and characterization of a local aquifer. This course prepares the student for entrance into government or consulting positions and graduate programs in the hydrologic sciences, environmental technologies and the geologic sciences. Pre-requisite: PHY 103, MAT 143 or higher.

GEO 205L Hydrology Lab

GEO 290 Geology of the Bahamas

German

See MODERN LANGUAGES - GERMAN

Health

FOR MORE INFORMATION, CONTACT THE PHYSICAL EDUCATION DEPARTMENT IN HEALTH AND PHYSICAL EDUCATION BLDG., ROOM H202, [315] 498-2282

HEA 206 Studies in Health and Wellness (1) A survey study of health problems, principles and practices, through lecture, discussion, and personal investigation. The concept of developing strategies for changing behaviors will be stressed so as to enable a student to build and maintain a wellness lifestyle throughout his/her life. Topics covered will be wellness, stress management, consumer health problems, communicable diseases, other lifestyle illnesses, chemical substance abuse, including alcohol, tobacco, illegal drugs and non-prescription drugs.

HEA 207 Personal Health (3) An in-depth course for those students seeking greater knowledge in health. Covered are a broad range of topics similar to those discussed in HEA 206 and PEH 100, but in greater detail.

HEA 208 Human Sexuality (3) The course examines the developmental and social aspects of human sexuality as developed within the individual and within relationships. Topics include sexual anatomy and physiology, reproduction, sexual development, childbirth, sexual diversity, sexually transmitted diseases, various sexual problems and dysfunctions and an exploration of community resources. There are no Pre-requisites for this course.

HEA 209 Alcohol/Tobacco/Other Drugs (3) This course is designed to explore the uses and abuses of alcohol, tobacco and drugs. The physiological, psychological, and sociological effects of these areas will be dealt with extensively. A particular emphasis will be placed on these uses and abuses to our community, through various agency participation (AA, police, etc.) whenever feasible.

Health First Aid

FOR MORE INFORMATION, CONTACT THE PHYSICAL EDUCATION DEPARTMENT IN HEALTH AND PHYSICAL EDUCATION BLDG., ROOM H202, [315] 498-2282

HFA 203 Standard First Aid/Personal Safety (2) Taught under American Red Cross standards leading to certification; this course is designed to develop safety consciousness and train individuals in the skills and emergency procedures necessary to render assistance to others. (Does not meet Health or Physical Education activity requirements.).

HFA 204 Cardiopulmonary Resuscitation (1) Taught under American Red Cross standards leading to professional-rescuer certification in CPR, this course enables students to provide appropriate initial care for breathing and cardiac emergencies in adults, infants and children. Included in the course: two-rescue CPR, use of a resuscitation mask and bag-valve mask, and special rescue situations. The course is intended for public safety personnel, athletic trainers, lifeguards, emergency response team, and health care professionals. (This will not fulfill the Physical Education Health requirement.).

HFA 214 CPR Recertification Taught under American Red Cross guidelines. This course is for public safety personnel, lifeguards, athletic trainers, emergency response team members and health care professional who need to update and recertify in professional rescuer skills. Pre-requisite: current CPR card issued within one year or Permission of Instructor.

HFA 215 Community CPR/First Aid Taught under American Red Cross guidelines. This course leads to certification in community CPR and first aid and stresses the basic steps to follow in recognizing and caring for breathing and cardiac emergencies for adults, infants and children. Includes first aid skills for soft tissue injuries, bleeding control, splinting and other sudden illnesses. Appropriate for home and working environments. This course is not intended for professional rescuers. There are no Pre-requisites for this course.
HIT 101 Intro to Health Information Technology (3) This course introduces the Health Information Technology student to the health care delivery system including maintenance and acquisition of health data/information. History of the profession and the role of the American Health Information Management Association (AHIMA) will be covered. Health information management including: numbering and filing methods, storage and retention of health records, design and maintenance of medical forms, quantitative analysis and indices will be included. In addition, the role of accrediting and regulatory agencies will be reviewed. Three-hour lecture and one-hour laboratory.

HIT 102 Legal Aspects of HIT (3) This course is designed to provide the student with an overview of the legal and regulatory requirements for the maintenance, retention and dissemination of health information and the role of medical documentation in legal proceedings. Major topics include: federal, state and JCAHO regulations; facility bylaws rules and regulation; the federal and state legal system; authorizations and consents, release of information, concepts of liability; civil procedures; and the role of risk management.

HIT 103 HIS: Non-Hospital (3) This course is designed to familiarize the student with health information systems in the non-hospital settings. Specific areas to be covered will include, but are not limited to, ambulatory care, long-term care, home care, hospice, psychiatric care and public health services. Health information functions, as well as quality assurance, risk management and utilization Management will be covered. Pre-requisite: HIT 101 Co-requisite: HIT 102, Hit 223.

HIT 110 Coding I and Classification Systems This course is designed to familiarize the student with coding and classification systems used in health information management. Emphasis will be on outpatient coding, classification and reimbursement systems including CPT, HCPCS, APG,s, and RBRVS. Students will become familiar with both manual and automated systems. Pre-requisites: HIT 101, BIO 107 or Permission of Instructor.

HIT 120 Medical Terminology (3) This course will provide a detailed study of the meaning of medical terms that relate to medical science and human anatomy. Medical specialties including pathology, radiology and pharmacology, as well as abbreviations used in the health care field will be covered. In addition to definitions, pronunciation and spelling will be emphasized.

HIT 121 Medical Transcription I (3) This course is designed to introduce and familiarize the student with the transcription of health care documentation using electronic technology. Topics include careers, equipment and the ethical and legal responsibilities of the medical transcriptionist. Students apply grammar, punctuation, medical terminology and word processing skills to transcribe basic medical documents for various settings. Pre-requisite: BOT 153 or equivalent or placement in English 103 Co-requisite: HIT 120 or Permission of Instructor.

HIT 201 Health Statistics and Reporting (3) The course reviews descriptive and vital statistics, reporting requirements, definitions and formulas for computing hospital and public health statistics. It will include the management of health information in relation to data collection, analysis and presentation. Topics will include the collection, analysis and display of data for quality assurance, utilization review, risk management and reimbursement. Pre-requisite: HIT 101 and HIT 103 (MAT 087, if required).

HIT 202 Management of HIT (3) This course introduces the student to the management functions: planning, organizing, directing, controlling and personnel supervision as they relate to the health information services. In addition to health information services, the roles and functions of quality assurance/improvement, risk management, and utilization management will be included. Pre-requisite: HIT 201.

HIT 205 Computer Applications in HIT (3) This course is designed to familiarize the student with computer applications used in health care facilities with emphasis on those used in health information management. Students will be instructed on the design, implementation and evaluation of automated systems. Quality controls, security and confidentiality will also be covered. Pre-requisite: HIT 210.

HIT 210 Coding II and Classification Systems (4) This course is a continuation of HIT 110. It is designed to familiarize the student with coding and classification systems used in health information management. Emphasis will be on inpatient coding, classification, utilizing ICD-9-CM. Reimbursement systems including DRGs, negotiated rates and capitated payments will be discussed. Students will become familiar with both manual and automated systems. Class consists of three hours of lecture and two laboratory hours. Pre-requisite: HIT 110 or Permission of Instructor Co-requisite: BIO 191.

Need more information? Check our Web site: www.sunyocc.edu 165
HIT 221 Medical Transcription II (3) This course is a continuation of Medical Transcription I (HIT 121) and is designed to develop more advanced transcription skills. Medical Transcription II improves a student’s capacity to transcribe medical reports for a broad range of clinical disciplines. Students enhance their understanding of medical and anatomical terminology. The development of medicolegal reports and medical committee minutes are also covered. Pre-requisite: HIT 121, BOT 154.

HIT 223 HIT Supervised Professional Practice I (1) This course is designed to give students the opportunity to observe health information departments and systems in non-hospital settings. Students are assigned on a rotating basis to a variety of health related sites, including health regulatory agencies, ambulatory care, long-term care and other non-hospital facilities for a total of 40 hours. Co-requisite: HIT 101, HIT 103.

HIT 225 Supervised Professional Practice II (3) Students in the health information technology program are required to complete a Supervised Professional Practice at the technical level. The main purpose of this practicum is to integrate the didactic (lecture) component with the (practice) components. Students will utilize the knowledge they have gained from the classroom lectures and laboratory experiences in the professional practice setting. Each student will spend 15 days (120 hrs.) in a health care facility. The student is responsible for the arrangement and costs of transportation to and from the professional practice site. Pre-requisite: HIT 101, HIT 102 Co-requisite: HIT 210.

HIT 227 Supervised Professional Practice III (3) This course is a continuation of HIT 225 and is designed to give students practical experience in health information management and supervisory issues. Students will utilize the knowledge they have gained from the classroom lectures and laboratory experiences in the clinical setting. Each student will spend 15 days (120 hrs.) in a health care facility. The student is responsible for the arrangement and costs of transportation to and from the clinical site. Pre-requisite: HIT 225 Co-requisite: HIT 202, HIT 205.

HIT 230 Advanced Seminar in HIT (1) This course is designed to review and integrate previous HIT courses and clinical experiences. Exploration of career opportunities, preparation of résumé, job search and interviewing for positions in health information technology will also be covered. This consists of a three-hour lecture which meets for five weeks. Co-requisite: HIT 227.

HIS 101 World History I (3) World History I is the first course in a two course sequence tracing the rise of world civilizations. The course examines social, political, intellectual and economic development of world civilizations from their emergence to 1600 C.E. This course examines the rise of civilizations in Europe, Africa and Asia, the development of world religious traditions, and the growing conflict between world civilizations.

HIS 102 World History II (3) World History II is the second course in a two course sequence tracing the rise of world civilizations. The course examines the social, political, intellectual and economic development of world civilizations from 1600 C.C. to the present. The course examines the growth of the nations state, imperialism, the decline of monarchy and the World conflicts of the 20th century.

HIS 103 History Western Civilization I (3) A survey of western civilization and culture emphasizing political, economic, social and intellectual developments. Students are introduced to contemporary source materials and to interpretive works of the major historians. Ancient World to the Age of Reason.

HIS 104 History Western Civilization II (3) A continuation of HIS 103 from the Age of Reason to the present.

HIS 105 Early American History (3) A survey of early American history emphasizing political, social and intellectual trends. Students are introduced to works of major historians and to various interpretations of American history. The course will cover early American history from its beginnings through the early National period.

HIS 106 American History in the 19th Century (3) A continuation of HIS 105, covering American history from the early National period through the 19th century.

HIS 107 Modern American History (3) America in the twentieth century, covering the major trends and movements in modern American history. A continuation of HIS 105, HIS 106.

HIS 119 Economic Transformation of U.S. (3) A one-semester course that analytically relates the economic institutions and forces that have contributed to the development of the American economic structure. The emergence of these institutions will be related to the growth process through an amplification of the national banking system, the ramifications of trade (both domestic and external), the business cycle, the emergence of organized labor, social reform and public policy.
The interrelationship of these institutions will be studied, in their historical perspective. Three-hour elective credit for Economics, History, or Social Science (same as ECO 119). No Pre-requisite.

HIS 125 American Social History (3) A study of United States social and cultural movements since the late 19th century, with special emphasis on minority groups - Native Americans, African Americans, women, workers, immigrants, dissenters. In addition to lectures and books, the course will rely extensively on the use of media to illustrate the course of American history. No Pre-requisite.

HIS 207 No. American Indian (3) A survey of American Indian history with emphasis upon pluralistic beginnings, the culture of American Indian groups, Indian-White contacts, the impact of Federal Indian Policy and persistence and change in American Indian culture. No prerequisite, though it would be preferable to have taken HIS 105 and HIS 106.

HIS 208 History of Iroquois (3) This course will cover the history of the Iroquois peoples. It will describe the historical origins and development of the Iroquois Confederacy, and delve into issues that have impacted on the confederacy over the years. Current legal problems, such as land claims, gaming and taxing authority battles will be analyzed and discussed.

HIS 209 History of American Women (3) A chronological and topical study of women as a group and as members of different social classes, from the colonial period to modern America. Women's contributions to American social, cultural, economic and political life are emphasized, along with their struggle for civil, legal and political rights.

HIS 210 Women and Medicine (3) A study of American medical theories and practice from the 18th century to the present. Emphasis is given to changing views of women's sexuality, women as patients and as medical practitioners within the context of social and cultural history. Pre-requisite: HIS 209 strongly recommended, or Permission of Instructor.

HIS 211 Russian History (3) A survey of Russian history from the earliest times, emphasizing the Byzantine religious and cultural heritage. Students are acquainted with the Kievan Rus, the Moscovite Rus and eventually with the Imperial Russia. Special attention is given to the serf problem and to the revolutionary movement.

HIS 212 Russian History (3) Begins with the reign of the last Tsar, continues with the revolution; war, communism, and the civil war; the “NEP” period and soviet consolidation; Soviet Union under Stalin; the USSR and the second World War; the Cold War Era.

HIS 223 African-American History I (3) This course examines chronologically and topically the development of African Americans from Africa, emphasizing the West African kingdoms, through the Civil War Era. West African culture and social life will be discussed in order to show how that culture was exploited by Europeans in the development of the slave trade. Students will spend several weeks studying the development of the institution of slavery and how slaves psychologically adapted to that lifestyle. The course also emphasizes the development of free black communities in America during this period and the motivations for and efforts of African and non-African Americans to end slavery. The course concludes with a discussion of the reality and the myth of Black participation in the Civil War and Reconstruction.

HIS 224 African-American History II (3) This course examines chronologically and topically the development of African Americans from the post-Civil War Era to the present. Students will examine African American responses to the legal institutionalization of segregation, self-help, education and the vote. Between discussions of Black participation in World Wars I and II, students will investigate the Harlem Renaissance and the development of jazz and the blues. Following a discussion of the Civil Rights Movement, the course will conclude with a discussion of Black conservatism.

HIS 226 History of Civil Rights (3) This course examines chronologically the efforts by African Americans to obtain full civil rights from the pivotal period of 1940-1955 to the present. The class focuses on first-hand recollections of the Movement by African and non-African Americans, documentary and popular film representations of the Movement and federal and state government responses to the Movement. The class discussions will seek to dispel the myths about the Movement while exposing the stereotypes, distortions and romanticism that surround the Movement. An integral part of that discussion will be evaluating the strategies utilized by those advocating and those opposing the movement for civil rights. The course concludes with an extensive discussion of black conservatism and efforts to “turn back the clock” on civil rights gains.

HIS 230 Families in American History (3) A chronological and thematic analysis of families from the seventeenth to the early twentieth centuries. The course focuses on familial contributions and responses to social, cultural and economic change, with attention to class, ethnic, racial and regional diversity. Typical topics include: images of the family and its life course; changing concepts and patterns of courtship; marriage; sexuality; parenting; childhood and adolescence; impact of industrialization and urbanization; alternate family life styles; and effects of demographic change.
HIS 239 America and Vietnam: A Documentary History of the Indochina Wars (3) A study of American involvement in Indochina since 1945. The course will deal with this topic not only as a chapter in American History, but also as a part of the history of Vietnam and the other nations of Indochina. There will be an extensive use of media in presenting the material.

HIS 261 The Civil War (3) This course will examine the American Civil War (1861-1865) in its many aspects. Such topics as the origins of the crisis, the break-up of the Union, the major military campaigns, the actions and motives of Lincoln, Grant, Lee, Davis, and other key players will be explored, as well as the legacy of the war for future generations of Americans. Though military affairs will be emphasized, social, political and economic topics will be covered as well. There will be an extensive use of media.

HIS 276 American Western: Film (3) Can be taken either for English or History credit. Studies the settlement of the American West as it has been reflected in popular literature and films, focusing on the distinction between the actual frontier experience and the way that experience has been presented to us in our entertainment. Special emphasis on the Plains Indians, the mountain men, and the cowboys.

HIS 286: American Worker/Film Study (3) This course studies the American working class since the late Nineteenth Century and how Hollywood film has depicted the struggle of working people to enhance their lives within the capitalist system. The course will explore through lecture, film and readings such topics as the rise of the union movement, the great strikes, ideological controversy within the labor movement, and the role played by African-Americans, women, immigrants and radicals in working class history. Students will view in class major films dealing with the working class – such as *The Molly Maguires*, *Matewan*, *The Grapes of Wrath*, *On the Waterfront*, *Salt of the Earth*, and *Norma Rae*.

HIS 290 Documentary Film (3) A study of the historical and cinematic development of the documentary film from its earliest beginnings to the present time. The course will explore the nature of non-fiction film, describe the different styles of documentary filmmaking that evolved over time, and then analyze the relationship of documentary film with selected historical periods. Students will view classic documentaries in class such as *Robert Flaherty’s Nanook of the North* (1922), *Frederick Wiseman’s Titicut Follies* (1967), and Errol Morris’ *The Thin Blue Line* (1989). They will learn the skills to evaluate documentary film from an historical and aesthetic point of view and develop a keen sense of historical appreciation of the past through the review and study of documentary film.

HIS 292 Columbus and the Age of Discovery (3) This course will explore the collision of cultures that resulted from the voyages of Columbus and the European contact with the American continents. The life and career of Columbus and the Spanish conquest of the new world will be covered. The impact of this conquest on both European and American cultures and on subsequent world history will be examined.

**Hotel Technology**

**Hotel Technology**

**HIS 261 The Civil War (3)**

**HIS 276 American Western: Film (3)**

**HIS 286: American Worker/Film Study (3)**

**HIS 290 Documentary Film (3)**

**Hotel Technology**

**FSA 0 Work Exp Verifica - 400 hrs.**

**HTL 230 Housekeeping and Property Management (3)** A detailed examination of the servicing of the guest in a lodging establishment. Critical attention is applied to the care and preventive maintenance of both public and private areas within the hotel edifice with emphasis on equipment, personnel and modern innovations.

**HTL 232 Front Office Management (3)** The day-to-day operations of the front office are examined from the progression of a room reservation to check-out. Room rate determination, billing systems, fiscal and accounting policies are emphasized. Traditional methods and systems are compared to computerized contemporary methods.

**Human Services**

**Human Services**

**HUM 151 Intro to Human Services Theory (3)** This course introduces students to human services. Topics include understanding human needs and human development, problem-solving skills, and the effects of family, culture, social systems, and diversity on the development of the individual. Students will be taught to apply this knowledge to working with people. Students will clarify personal and professional values and career goals. Pre-requisite: English and reading placement must be at college-level proficiency.

**HUM 153 Human Service Skills/Resources (3)** This course introduces the student to professional helping relationships and teaches the beginning interpersonal skills and techniques essential for effective human service workers. The student
will also be introduced to the range of community resources for human services and will select a human services department track and clarify career goals. Pre-requisite: English and reading placement must be at college-level proficiency.

HUM 159 Chemical Dependencies (3) This course provides an introduction to the field of alcohol and drug abuse counseling including: the medical aspects of chemical abuse and dependence; assessment, diagnosis, level of care determinations and treatment settings; treatment strategies; relapse process and prevention; and issues related to diagnoses and treatment of special populations.

HUM 162 Intro/Social Work Practice (3) The student is introduced to generic social work methods, aspects of practice, the concepts of generalist, social systems interventions and comprehensive social work service to individuals, small groups, and the community. Pre-requisites: HUM 151 and either HUM 153 or HUM 160, or Permission of Instructor.

HUM 164 Social Work/Field Instruction (5) The field practicum is the first of a two-semester sequence of supervised experience enabling the students to develop competency for the delivery of social work services at the associate degree level. The in-depth learning experience allows the student to integrate the knowledge base of social work with the actual practice of helping people. A medical exam and professional liability insurance fee may be required. Pre-requisite: HUM 151, 153 or Permission of Instructor.

HUM 203 Child Welfare and Social Work (3) This course presents the student with an overview of the child welfare system, particularly as it pertains to working with children and families within the discipline of social work and the community at-large. Utilizing a strength-based empowerment perspective in child welfare, the course will provide basic knowledge and understanding of the historical and ongoing development of the child welfare system, explore current services offered in child welfare agencies and examine practice decisions based on several social work methodologies. The impact of culture norms and the social marginalization of populations will be discussed as they relate to the definitions of abuse and the welfare of children and families. Pre-requisites: HUM 151 and HUM 153 or Permission of Instructor.

HUM 226 Group Skills for Alcohol and Substance Abuse Counseling (3) This course is designed to present a variety of theoretical approaches to group techniques applicable to counseling alcoholics, addicts and adult children. Experiential exercises for practicing group techniques and skills will be utilized including screening clients and setting up a group. There will be emphasis on managing group processes such as norm development, dealing with reluctance and resistance and other techniques. The emphasis of the course is on group leader preparation and training.

HUM 227 Issues in Alcohol and Substance Abuse Treatment Programs (3) A survey of issues related to the treatment approaches in alcohol and drug treatment programs. Treatment of special populations, child abuse reporting, domestic violence, treatment in correctional institutions, specialized addictive treatment modalities and employee assistance programs will be covered. Issues related to the role of the professional in alcoholism and substance abuse treatment will be discussed. Other topical issues will be introduced based on class need and current trends in the field.

HUM 228 Teen Alcohol/Substance Abuse (3) Designed to give basic knowledge regarding adolescent alcohol and drug abuse. The causes, treatment, and prevention of substance abuse and the bio-psycho-social development of adolescents will be studied.

HUM 229 Alcohol/Addictions and Family Systems (3) This course is designed to provide an in-depth look at the effects of alcoholism and substance abuse on the family system. The unit of study is the family. Topics include a variety of approaches for assessing the family, designing intervention and treatment programs, addressing co-dependency treatment issues, including family roles. The personal and professional development is studied, especially the influence of co-dependency issues. Also included are models of healthy, troubled and dysfunctional family patterns.

HUM 230 Human Services/Cultural Minority (3) This course provides training for students involved in delivering human services to minority persons. It examines characteristics unique to various minorities which affect their utilization of human services. The development of intervention skills to minorities will be studied.

HUM 260 Social Work Interviewing/Counseling (3) This course addresses the functions, roles, and techniques essential for effective social work/human services work. It encompasses social work values, knowledge and skills in the interviewing and the counseling relationship. HUM 151 and HUM 153 or Permission of Instructor.

HUM 261 Social Services/Case Management (3) The student is presented with an overview of the social services profession. The institution of social welfare and the field of social work as a practice and a profession are examined. This course is designed to provide the student with knowledge and understanding of the historical development of social welfare as institutionalized social services, the social science base to social welfare, intervention methods.

Need more information? Check our Web site: www.sunyocc.edu
HUM 263 Social Work/Field - Sem 2 (5) The field practicum is the second of a two-semester sequence of supervised experience enabling the students to develop competency for the delivery of social work services at the associate degree level. The in-depth learning experience allows the student to integrate the knowledge base on social work with the actual practice of helping people. A medical exam and professional liability insurance fee may be required. Pre-requisite: Permission of Instructor.

HUM 265 Aging and the Family (3) An introduction and overview of the process of aging, including interactions between the biological, psychological, social, and economic aspects of aging in our society. Areas such as nutrition, health, housing, employment and retirement will be explored with an emphasis on the interdependence of all these areas. The present status of the elderly and possible changes that might prevent or remedy the problems they face in today's society will be discussed.

HUM 267 Family Crisis/Human Services (3) A study of families in crisis and crisis intervention as the major treatment methodology. Focus is on specific developments and situational crises which interfere with family functioning and coping abilities. Social service institutional services and the role of the crisis counselor will be discussed.

HUM 268 Social Work-Alcohol/Substance Abuse (3) This course is an interdisciplinary approach to social work and substance abuse counseling. Students will explore substance abuse treatment issues and theories, as well as the current alcohol and substance abuse service delivery system. The course will introduce the student to the knowledge and skills needed to assess, diagnose and treat substance abusing clients from a social work perspective. Pre-requisites: HUM 151 or HUM 153 or Permission of Instructor.

HUM 269 Social Work/People With Disabilities (3) This course will include a brief history of disabilities in our society, definitions and discussion of various disability groupings, providers, services and interventions as well as many of the current issues that individuals with impairments and disabilities face today. It considers the impact of the Americans with Disabilities Act of 1990 (ADA) and its effect on public awareness and attitudes. Pre-requisite: HUM 151, 153 or Permission of Instructor.

HUM 270 Assertiveness Training (1) The purpose of this course is to enable the student to learn the theory of assertiveness training and a method for developing skills in assertive communication, so that one may learn to conduct oneself in an effective, direct appropriate manner in interpersonal situations, especially at work. Teaching approaches include lecture, discussion, modeling, role rehearsal, videotaping, etc.

Interior Design

FOR MORE INFORMATION, CONTACT THE ARCHITECTURAL TECHNOLOGY DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W352, (315) 498-2687

IND 110 Design Studio 1 (4) This is the first of two design studio foundation courses. Students explore elements of design and their relationships in two and three dimensions. Concepts include design vocabulary, design process, positive and negative space, hierarchy, proportion, symmetry, movement, rhythm, composition and unity. Architectural concepts of space and form, organizations, circulation, scale, structure, volume, fenestration and materials are introduced. Co-requisite ARH/IND 120 and 154 or Permission of Instructor.

IND 111 Design Studio 2 (4) This is the second of two design studio foundation courses. Students continue to explore elements of design and their relationships in two and three dimensions. Design concepts and process are discussed in detail. Architectural and interior design concepts of space, organizations, circulation, scale, structure, volume, massing, fenestration and materials are analyzed and discussed. Pre-requisite: ARH/IND 110 Co-requisite: ARH/IND 155 or Permission of Instructor.

IND 120 Drafting Studio 1: Wood Frame (3) This course will develop basic architectural drafting skills (manual). The student will demonstrate an understanding of these skills through the development of a set of architectural drawings for a wood frame house or similar structure. Students will be required to buy basic architectural drafting equipment.

IND 140 Wood Frame Construction (2) The characteristics, properties, performance and application of materials and systems used in wood frame construction.

IND 141 Interior Finish Systems and Furnishings (2) This course concentrates on a comparative analysis of commonly used floor, wall, and ceiling finish systems for residential and commercial building interiors. Furnishings, furniture, and office landscape systems will also be discussed. Pre-requisite: ARH/IND140.

IND 154 Graphic Communications I (3) A freehand drawing course designed to help the drafter/designer appreciate forms, texture, and composition. Basic instruction in pencil techniques, perspective principles. A basic course designed to help the drafter/designer develop a style of architectural rendering. Co-requisite: ARH 110 and IND 120 or Permission of Instructor.
IND 155 Graphic Communications II (3) A continuation of IND 154 with emphasis on perspective drawing and introduction to shades and shadows. Various media are introduced including colored pencils and markers. Pre-requisite: IND 154 or Permission of Department.

IND 215 Design Studio 3 (4) This is the third design studio for Interior Design. Students are expected to apply knowledge of design concepts and design process to “real-life” design problems. Programming, aesthetics of interior spaces, context, fenestration, materials, furniture, structure, and design development will be explored. Experimentation with space, form, light, and proportion will be stressed. Significant trends in interior and architectural design, as practiced by recent leading interior designers and architects will be discussed. Pre-requisite: ARH/IND 111 or Permission of Instructor. Co-requisite: IND 256 or Permission of Instructor.

IND 216 Design Studio 4 (4) This is the fourth design studio for Interior Design. This studio is a continuation of IND 215 and will require in-depth analysis of the design problems and higher expectations for design presentations. Students are expected to apply knowledge of design concepts and design process to “real-life” design problems. Programming, aesthetics of interior spaces, context, fenestration, materials, furniture, structure, and design development will be explored in depth. Experimentation with space, form, light, and proportion will be stressed. Significant trends in interior and architectural design, as practiced by recent leading interior designers and architects will be discussed. Pre-requisite: IND 215 or Permission of Instructor.

IND 256 Graphic Comm III (3) An advanced course in perspective rendering. Students are expected to apply perspective drawing skills acquired in IND 155 to generate color renderings of building interiors and exteriors. Students concurrently taking Design Studio 3 are required to take this course and to use their design solutions as a base for required rendering projects in IND 256. Pre-requisite: IND 155 or Permission of Department.

IND 266 Independent Study (1-6)

Journalism

FOR MORE INFORMATION, CONTACT THE ENGLISH DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A313, (315) 498-2266.

JRN 121 Intro to Journalism (3) Designed to increase students’ awareness of the mass media and its impact on society: development of the media, including writing types and styles; ethical and social problems; study and practice of journalistic writing, analysis of major news media with emphasis upon newspapers. Pre-requisite: ENG 103. Can be taken simultaneously with ENG 104.

JRN 157 Electronic Media Writing (3) This course helps students to master the diverse writing styles and formats used in writing for broadcast on radio, television, and cable. These include public service announcements (PSAs), station IDs, promotional announcements, script formats, commercials, news copy, and program materials. Emphasis is on developing broadcast copy style, distinguishing words directed toward the ear and the eye. Prerequisite: ENG 103.

JRN 123 Newspaper Production (1) Familiarizes students with all aspects of newspaper production and provides practical application of journalism theories with participation in the activities of the student newspaper. Students attend weekly meetings, write articles, etc. Includes one and one-half hour seminar/discussion.

JRN 251 Media Writing (3) Elements of writing news stories; style and structure; news sources; types of stories. Discussion and criticism of various kinds of writing for the media, with emphasis on newspapers; consideration of publicity writing. It is recommended that students take ENG/JRN 121 first. Pre-requisite: ENG 103 and ENG 104, and ability to type.

JRN 252 Non-Fict/Pop Writing (3) A survey of contemporary attempts to use the techniques of fiction writing in works of nonfiction and an examination of some outstanding examples of journalistic feature writing, magazine writing, and criticism. Students will have the choice of writing critical reviews or doing non-fiction and related writing. Includes study of one relevant documentary motion picture and one full-length non-fiction work. Pre-requisite: ENG 103, ENG 104.

JRN 253 Newspaper Editing (2) Open to senior members of the student newspaper. Provides practical application of editing theories. Students must be familiar with all aspects of newspaper production and will train and direct one of the staffs of the student newspaper appropriate. Students attend weekly staff and editorial meetings. Includes weekly seminar discussions; four individual consultations with the instructor; a short evaluative paper.
Labor Studies

FOR MORE INFORMATION, CONTACT PROFESSOR WAINWRIGHT/THE ENGLISH DEPARTMENT IN ROOM 349A, (315) 498-2588.

LBR 210 Contract Bargaining I (3) A basic course designed to equip students with a conceptual understanding of the collective bargaining process. Among the topics are the nature of the collective bargaining process, the scope of bargaining, collective bargaining structure, wage patterns, and impasse procedures.

LBR 212 Union Administration (3) This course applies organization theory to the administration of unions and analyzes the requirements placed upon union officers in the conduct of their responsibilities. The course investigates the role of the shop steward, executive board, officers and union staff in their relations with the members, with employer representatives, and with the public.

LBR 215 Contemporary Labor Problems (3) A survey of the major challenges that confronted the labor movement in the 1970s. Students are briefed on the background of each problem and discuss and analyze a broad range of solutions proposed by the experts.

LBR 225 Contract Administration (3) A study of union administration; the underlying structure and the relationship of its members, locals, and national organizations; the implementation of the collective bargaining contract in its day-to-day administration. Emphasis will be placed on the basic principles of grievance procedure.

LBR 230 Labor and American Economy (3) A general introduction into the development and structure of the American economy, examining the activities that people carry on - producing, saving, spending, paying taxes - to satisfy their individual and collective economic needs and desires. Emphasis is given to topics of special concern to working people such as employment and unemployment, price stability, and the governmental role in the economy.

LBR 240 International Affairs/Labor (3) American unions and their relationship to international organizations affecting labor such as the International Labor Organization and international labor trade and multinational corporations; and labor's stake in U.S. foreign policy.

LBR 241 Arbitration (3) A study of the function of arbitration in labor management relations, including preparation for arbitration, the conduct of the hearing, evidence and proof, and the standards used by arbitrators in reaching a decision. Students will participate in mock arbitration hearings.

LBR 251 Social Behavior and Work (3) This course deals with human relations and leadership skills most frequently used in union and work settings. It is designed to provide students with fresh insights into human relations through the study of current concepts in sociology, psychology and other behavioral sciences.

LBR 254 Labor Law (3) A survey of the major areas of labor law, including union rights and permissible employer responses in organizing campaigns, protected activities under the NLRA, ground rules for collective bargaining, arbitration and enforcement of collective agreements, strikes and secondary boycotts, and public sector problems.

LBR 255 Labor History (3) A review of the major developments in American labor history from colonial times to the present with special emphasis on the changing goals of labor, early union efforts, the evolution of labor legislation, the development of the AFL and the CIO, the changing relationship between employer and employee.

LBR 256 Dispute Resolution (3) An introduction to dispute resolution theory and practice with special emphasis on its applications in the field of industrial and labor relations. The course examines the nature and sources of conflict in various areas of industrial society and the role of negotiation, mediation arbitration and fact-finding in the resolution of disputes.

LBR 259 Public Sector Collective Bargaining (3) An introduction to public sectors collective bargaining which focuses on public sector law as well as unique features of bargaining in this sector. Special attention will be given to the theory of bargaining as well as tactics and strategies employed in the process.

LBR 273 Health Hazards Work (3) A survey course on occupational health and safety. The course includes history of occupational health and safety at federal, state and city levels; analysis of specific health hazards, links to environmental health issues, and relationships to workmen's compensation and other disability coverage.

LBR 280 Oral and Written Communication (3) One of the most important skills a trade union leader must have is the ability to communicate effectively with other union members, employers, government representatives, and the public at large. These courses interweave the various kinds of speaking and writing the student might find useful in his work as a student and as a leader in his organization. Topics include: organizing ideas and preparing a written outline, writing a business letter, preparing a resolution or petition, writing minutes of a meeting, taking notes at meetings or lectures, speaking from an outline, basic parliamentary procedures.
LBR 287 Labor, Government/Politics (3) A survey of the ways the political process affects labor, the nature of government operations, political lobbying, pressure groups and political parties.

LBR 299 Internship (3) A combined work and classroom experience involving placement with local labor or business organizations in the industrial and labor relations field. Student will combine work experience with seminars to identify learning objectives in the work experience and measure growth of labor relations skills.

Library


L1B 100 The Art of Inquiry (1) An introduction to library research. Students will consider the purpose and methods of inquiry, examine the types and varieties of library materials, and become familiar with the arrangement of these materials in the library. Students will become proficient in the use of catalogs and indexes, printed and electronic.

L1B 105 Strange Frequencies: Deciphering Manufactured Information (3) This course is a critical examination of how information is manufactured, distributed and used in the Digital Era. Emphasis will be on assessing the impact of digital technologies on the production, presentation and use of information. Topics include but are not limited to: convergence of information producing organizations, data smog, doublespeak, information anxiety, information ethics, “it’s an ad, ad, ad world”, media bias, mediated reality, mediated voyeurism, push technology, misinformation, disinformation, rhetoric vs. reason, customizing information and the Internet/Web as content providers.

Mathematics


MAT 073 Fractions, Decimals, % (0, 2 eq.cr.)*
The arithmetic of fractions, decimals, percents and proportions. Topics include addition, subtraction, multiplication and division of fractions, mixed numbers and decimals, conversion of percent to decimals to fractions; solving proportion and word problems.

MAT 079 Pre-Algebra (0, 3 eq.cr.) Concepts and techniques associated with pre-algebra mathematics. Topics include: arithmetic of fractions, decimals, proportions, and percents and an introduction to signed number operations. This course will emphasize both skill development and an application of these skills to real world situations. NOT OPEN TO STUDENTS WHO HAVE COMPLETED MAT 073. Prerequisite: whole number arithmetic.

MAT 085 Math Skills/Applic (0, 1 eq.cr.) Provides learning reinforcement for students enrolled in the areas of arithmetic, elementary algebra, or intermediate algebra. Both mathematical skills and applications will be emphasized. Students may enroll in this course only with a math diagnostician’s recommendation. This course will be offered in a workshop format as needed or as requested by other disciplines requiring math skills (i.e. Nursing, health related professions, Economics).

MAT 087 Beginning Algebra (0, 3 eq.cr.) Concepts and techniques associated with beginning algebra. Topics include: Real number systems, algebraic operations, linear equations, coordinate systems, powers and roots, polynomials and factoring. Prerequisite: Arithmetic skills.

MAT 088 Beginning Alg/App (0, 4 eq.cr.) This course is designed for students who have no previous exposure to algebra. The skills and applications component provides students with an opportunity to practice newly acquired skills and use these skills to solve practical problems. Topics include: Real number systems, algebraic operations, linear equations, coordinate systems, powers and roots, polynomials and factoring. Prerequisite: Arithmetic skills or students with no prior knowledge of Algebra.

MAT 101 Technical Math I (4) Fundamental operations of algebra, determinants, quadratics, inequalities, trig functions, fundamentals identities, law of sines, cosines, vectors, exponents and radicals, complex numbers, logarithms, applications to mechanical and electrical technology. Prerequisite: Intermediate Algebra, College Algebra or equivalent. Not open to Math-Science students.

MAT 102 Technical Math II Trigonometric Functions (4) Sum and difference, double, half-angle formulas; inverse trig functions, trigonometric equations, basic definitions of analytic geometry: straight line, conics, polar coordinates; curve sketching, limits, delta process, derivative, product, quotient, power rule, max and min, indefinite and definite integral, area, volume, centroid, moments, derivative of trig, inverse trig, log, exponential function, integration by basic forms, parts, tables. Prerequisite: Technical Math I or equivalent, No MTS Students.
MAT 106 Math Applications I (4) The first course in a two-semester sequence of intermediate algebra and trigonometry with technical applications. Topics include trigonometric functions, vectors, units of measurement and approximate numbers, fundamental concepts of algebra, functions and graphs, systems of linear equations, determinants, factoring and fractions, quadratics, variation and geometry (areas and perimeters of common plane figures, volumes and surface areas of common solids). The scientific calculator will be used throughout the course. Open to Telecommunications Technology majors only. This course is not applicable as an elective for any other degree granting program. Prerequisite: Beginning Algebra or Equivalent.

MAT 107 Math Applications II (4) The second course in a two-semester sequence of intermediate algebra and trigonometry with technical applications. Topics include exponents and radicals, exponential and logarithmic functions, ratio, proportion and variation, oblique triangles, graphs of sine and cosine functions, complex numbers and their applications inequalities, introduction to statistics and a non-rigorous introduction to calculus. A scientific calculator and computer software will be used throughout the course. Open to Telecommunications Technology majors only. This course is not applicable as an elective for any other degree granting program. Prerequisite: MAT 106.

MAT 112 Nature of Math (3) The purpose of this course is to improve problem-solving skills and extend students' understanding of the nature of mathematics. The topics include: problem solving, number theory, Euclidean and Non-Euclidean geometry, the concept of infinity, probability and optional topics chosen from topology, chaos, and fractals. Not open to Math - Science students. This course is primarily for liberal arts students entering fields of study which do not have a strong mathematical emphasis. Prerequisite: Beginning Algebra or Equivalent.

MAT 113 Contemporary Math (3) A course primarily for liberal arts students entering fields of study which do not have a strong mathematical emphasis. The purpose of the course is to show the direct connection between mathematics and concrete real-life problems. The topics are drawn from the areas of social choice (voting), management science (networks and scheduling) and routing problems (graph theory). Participation in group work is required. Not open to Math - Science students. Prerequisite: Beginning Algebra or Equivalent.

MAT 114 Intermediate Algebra with Applications (4) Topics include solving linear equations and inequalities, graphs, functions, systems of equations, polynomials and polynomial functions, factoring, rational expressions and equations, radical expressions and equations, geometric concepts, quadratic equations, and applications. This course will not count toward any elective credit for Math - Science majors. Prerequisite: Beginning Algebra or equivalent.

MAT 115 Modeling for Decision Making (3) Linear systems, matrices, linear programming, mathematics of finance, counting procedures, sets, probability, functions, exponents. Use of specific technology will be required. Not open to Math - Science students. Prerequisite: Intermediate Algebra, College Algebra or equivalent.

MAT 116 Decision Making/Calculus (3) Limits, differentiation, exponential and logarithmic functions, differential equations (growth and decay), anti-derivatives, definite integral, applications to social and management sciences. Use of specific technology will be required. Not open to Math - Science students. Prerequisite: MAT 115.

MAT 118 Empirical Introduction to Statistics (3) A course in empirical statistics for non-science majors. Topics include: random sampling, graphing, measures of central tendency and dispersion, normal distribution, ranks, percentiles, standard scores, confidence intervals, hypothesis testing. Student's t, chi square, correlation and regression. Prerequisite: MAT 094, or 100, or 112, or 113 or equivalent. Not open to Math - Science or Engineering Science majors or to anyone having earned credits in MAT 151 or BUS 219.

MAT 121 Math for Elementary Teachers I (4) This course is the first of a two-semester sequence designed for the prospective B-2, 1-6, 5-8, and B-6 teacher. Students who plan to transfer to a four-year institution in early childhood, or middle childhood education should take this course and Math 122. Students will develop an understanding of the mathematical curriculum recommended by the National Council of Teachers of Mathematics' (NCTM) Standards. Topics include: sets, number systems, whole numbers, integers, rational numbers, real numbers, and number theory. A hands-on problem solving technology-based approach will be emphasized throughout this course. This course fulfills the math requirements for General Studies, Humanities, and Human Services only. Prerequisite: Permission of Department based on diagnostic testing and previous math course work.

MAT 122 Math for Elementary Teachers II (4) This course is the second of a two-semester sequence designed for the prospective B-2, 1-6, 5-8, and B-6 teacher. Students who plan to transfer to a four-year institution in early childhood, or middle childhood education should take this course and MATH 121. Students will develop a comprehensive understanding of the mathematical curriculum as recommended by the National Council of Teachers of Mathematics' (NCTM) standards. Topics
will include: geometry, probability, statistics and the metric system. A hands-on, problem-solving, technology-based approach will be emphasized throughout the course. This course fulfills the math requirement for General Studies, Humanities and Human services only. Prerequisite: MAT 121.

MAT 141 Pre-Calculus Algebra (3) Topics include: polynomial and absolute value inequalities, functions, and their inverses, operations on functions, graphs and transformations, exponential and logarithmic functions, complex numbers, elementary theory of equations, systems of equations and binomial theorem. Graphing calculator use is required. Prerequisite: Intermediate Algebra, College Algebra or equivalent.

MAT 142 Trigonometric Functions (1) A functions approach to the study of trigonometry. The basic trigonometric functions of real numbers are discussed. Graphing calculator use is required. Prerequisite: Intermediate Algebra, College Algebra or equivalent.

MAT 143 Pre-Calculus with Trigonometry (4) This course is designed to provide the necessary foundation for a standard calculus course. Topics include: absolute value and quadratic inequalities, functions and their equations, use of matrices to solve linear systems, exponential and logarithmic functions and their applications, circular functions and their inverses, trigonometric identities and equations, addition and multiple angle formulas, complex numbers, elementary theory of equations and binomial theorem. Graphing calculator use is required. Prerequisite: Intermediate Algebra, College Algebra or equivalent. Not open to anyone with previous credit in MAT 141 or MAT 142.

MAT 151 Statistics I (4) Topics covering the descriptive and inferential aspects of statistics will include: frequency distribution, graphs, measures of central tendency and dispersion, probability, probability distributions, binomial and normal distributions, introduction to sampling theory, estimation theory, and hypothesis testing (mean, variance, proportions, etc.). Computer software and graphing calculator applications will be an integral component of this course. A graphing calculator with specific statistical capabilities will be required. Credit will not be given for both MAT 152 and BUS 220. Prerequisite: MAT 151 or BUS 219 or equivalent.

MAT 152 Statistics II (4) A continuation of Statistics I to include: Two-sample analysis, linear and multiple regression, correlation, analysis of variance, non-parametric statistics and Chi-square goodness of fit. Time series analysis and/or statistical process control as time permits. Computer software and graphing calculator applications will be an integral component of this course. A graphing calculator with specific statistical capabilities will be required. Credit will not be given for both MAT 152 and BUS 220. Prerequisite: MAT 151 or BUS 219 or equivalent.

MAT 161 Calculus I (4) A first course in calculus for students in mathematics, science, computer science, and engineering. Basic analytic geometry, functions, limits and continuity, derivatives of algebraic and trigonometric functions, chain rule, implicit differentiation, antiderivatives, definite integrals, Fundamental Theorem, applications of derivatives and integrals. Graphing calculator use is required. Prerequisite: Four years of college-preparatory mathematics (including trigonometry) or MAT 143 or equivalent.

MAT 162 Calculus II (4) A second course in calculus for students in mathematics, science, computer science, and engineering. Applications of integrals; derivatives and integrals of exponential, logarithmic, and inverse trigonometric functions; indeterminate forms and L'Hopital's rule; techniques of integration; improper integrals; numerical integration; infinite series; polar graphs. Graphing calculator use is required. Prerequisite: MAT 161 or equivalent.

MAT 241 Linear Algebra (3) Systems of linear equations, matrices, real vector spaces, subspaces, linear independence, basis, dimension, row and column space of a matrix, rank, linear transformations, kernel, range, matrix of a linear transformation, determinants, eigenvalues, eigenvectors. Prerequisite: MAT 161 or equivalent.

MAT 251 Discrete Math (3) Study of theoretical bases of set theory, logic, techniques of proof, number systems, functions, relations, algorithms, graph theory, counting, permutations, combinations, binomial coefficients, recurrence relations, induction and recursion, and trees. Prerequisite: MAT 161 or equivalent.

MAT 263 Calculus III (4) Vectors, vector functions, 3-dimensional analytic geometry, partial derivatives, total differential, gradient, multiple integrals, line integrals, Green's theorem, Stokes' theorem. Prerequisite: MAT 162 or equivalent.

MAT 264 Differential Eq (4) A course designed primarily for Math - Science and Engineering majors. Topics include: definitions, first-order differential equations, linear equations of order two and higher, Laplace transforms, series solutions, systems of differential equations, numerical solution methods, modeling applications. Prerequisite: MAT 162 or equivalent.
MET 151 Machine Tools (3) A study of basic theory and laboratory experiences for lathes, milling, drilling, grinding, bench work, and shaping operations. Study of cutting feeds and speeds, surface finishes as well as machine capabilities is included. Two class hours and laboratory.

MET 151L Machine Tools Lab

MET 152 Machine Tools Lab (3) A continuation of MET 151. Additional theory and laboratory experiences include: milling, attachments, broaching, machine tooling, tapers, heat treating, metal finishes, and inspection; also basic programming and operations of numerical control equipment. The basic applications of jigs and fixtures. Two class hours and laboratory. Pre-requisite: MET 151 or Permission of Instructor.

MET 152L Machine Tools Lab

MET 160 Metrology (2) Study of the science of measurement. The reason for, language and systems of measurement are covered. The basic tools of measurement are introduced and the use of such tools as optical flats, gage blocks and calipers are included. One class hour and two laboratory hours.

MET 175 Geometric Dim and Tolerancing (2) Using the most recent ASME standards this lecture/discussion-based course will focus on the fundamental principles of geometric dimensioning and tolerancing. Form and function relationships as they relate to manufacturing processes will be discussed, as will the five basic tolerances of form, orientation, profile, runout and location. Pre-requisites: GPH 100 or GPH 161 or Permission of Instructor.

MET 251 App Strength of Materials (3) Provides a ready vehicle for highly design-oriented approach to the basic concepts of mechanics of materials. Throughout the course emphasis is placed on the best practical applications of the theory. Students need not have studied a course in statics because statics is introduced directly into the course. The content of the course consists of: co-planar concurrent force systems, co-planar non-concurrent force systems, stresses in trusses and bridges, deformation and thermal stresses, direct shear, torsion, shearing forces and bending moments in beams, centroids and moments of inertia, stress due to bending and vertical shearing force, combined stresses, deflection of beams, columns, pressure vessels, riveted connections and welding joints. Three class hours lecture, two class hours recitation, four hour laboratory per week. Pre-requisite: MAT 101 or Permission of Instructor.

MET 251L Appl Strength of Mat Lab

MET 251R Appl Strength of Materials

MET 252 Physical Metallurgy (3) Provides a sound foundation of learning in the area of properties and microstructures of the important ferrous and nonferrous alloys. Also provides a firm foundation relative to the understanding of internal metallic structures of metals. The contents of the course include: metallic structures, the unit cell, atomic radius, planer density, effects of stress and temperature on simple metal structures, ferrous alloys - steel, super-alloys, cast iron, ductile iron, malleable iron, phase diagrams, aluminum alloys, heat treatment of metals. Two class hours, three lab hours. Pre-requisite: MAT 101 or Permission of Instructor.

MET 252L Physical Metallurgy Lab

MET 254 Numerical Control Programming (3) Designed to prepare students with the necessary skills to program NC and CNC controlled machine tools. Lectures address such topics as drawing interpretation, program formats, input media, sub-routines, canned cycles, and tooling, while the laboratory sessions give the students practice in programming learned techniques. Two class hours and three laboratory hours. Pre-requisite: GPH 261 or Permission of Instructor Co-requisite: MET 151.

MET 254L Numerical Control Prog Lab

MET 261 Intro to CAD (3) An introductory course in CAD (Computer-Aided Drafting) utilizes state-of-the-art software. Topics to include the manipulation of the basic drawing commands to construct computer detailed multiview drawings with printer/plotter hard copy output. Pre-requisite or Co-requisite: GPH 161 or Permission of Instructor.

MET 262 Intermediate CAD (3) An extension of Introduction to CAD. This course provides the elements for sectioning, auxiliaries, semi-automatic dimensioning, blocks and inserts and colored layers. An introduction to one-sided printed circuit board layout from schematic diagrams utilizing layers. Pre-requisite or Co-requisite: GPH 261, GPH 151, GPH 162 or Permission of Instructor.

MET 263 Advanced CAD (3) An advanced course in CAD. Topics to include advanced drawing aids and modes, tablet digitizing, screen and menu customizing techniques, and library drawing generation for the digitizer pad. Pre-requisite: GPH 262 or Permission of Instructor.

MET 264 Tool Design (3) A study of the fundamental concepts of design including analysis and drawings of tools used in modern manufacturing processes such as jigs, fixtures, joining process, cutting tools, and dimensional tolerancing. Two class hours and laboratory. Pre-requisite: Engineering Drawing, Machine Tools or Permission of Instructor.
MET 265 Tool Design (3) Advanced design of inspection holding fixtures, punches and dies for piercing and blanking, bending and forming, and tooling for castings. Two class hours and laboratory. Pre-requisite: GPH 162, MET 151, Algebra or Permission of Instructor.

MET 266 Machine Design I (3) Machine design is the process of making decisions which determine the mechanical arrangements of parts in a machine and which influence the size, shape, material, and condition of a finished machine part. The objective of this course is to enable the student to design fundamental machine parts and assemblies, in preparation for a career in the design office of a typical manufacturing company producing any type of mechanical machinery. The content of the course consists of: basic principles of machine analysis, velocity analysis, acceleration analysis, linkages, gearing, gearing trains, cams, mechanisms. Two class hours and a laboratory. Pre-requisite: MAT 101, PHY 101, OR Permission of Instructor.

MET 267 Machine Design (3) A study of machine design dealing with cams, fasteners, drives, bearing, lubrication, and the complete design of machine component. Two class hours and laboratory. Pre-requisite: Strength of Materials or Permission of Instructor.

MET 268 Work Measurement (3) Introduction to operation analysis, standards determination, standard data systems, time and motion study, wage payment as applied to industry. Three class hours.

MET 270 Pro Engineer (4) A course designed to acquaint students with parametric computer aided design software. Utilizing state of the art software students will be introduced to the manipulation of basic commands necessary to construct three-dimensional models, datum plane creation, extrusions, cuts, sweeps, and blends. Pre-requisites: GPH/MET 261 or Permission of Instructor.

MET 271 Manufacturing Processes (3) The principles and procedures of various manufacturing processes used in modern industries. Material selection and machine tools required for the processes are emphasized. Two class hours and a three hour laboratory.

MET 271L Manufact Processes Lab

MET 272 Production Methods (3) A study of planning and scheduling from raw materials to finished products for industrial processes. Routing, estimating inventory, production control, statistical quality control and cost consideration are considered. Two class hours and laboratory. Pre-requisite: MET 151, MET 271 and GPH 161 or Permission of Instructor.

MET 273 Applied Thermodynamics I (3) Provides an understanding of both the physical and mathematical aspects of thermal physics. It develops the fundamental laws of thermodynamics and investigates the practical applicability of these laws. The content of the course consists of: properties of a system, energy, heat, work, non-flow and steady flow systems, application of the first law of thermodynamics, the Carnot cycle, entropy, thermodynamic properties of liquid and vapors, thermodynamic diagrams, specific heat and entropy changes of ideal gas, gas tables, gas dynamics, converging and diverging nozzles, actual nozzle performance, rocket propulsion. Pre-requisite: MAT 102, PHY 101 or Permission of Instructor.

MET 274 Process Control Instr (5) Provides instructional material for a general understanding of process-control characteristics such as elements, modes, and stability along with detailed knowledge of measurement technique, control mode implementation, and final control element functions. The content of the course consists of: introduction to process control, analog signal conditioning, digital signal conditioning, thermal transducers, final control operations, discrete-state process control. Three class hours, two recitation hours and four lab hours. Pre-requisite: ELT 141 or Permission of Instructor.

MET 274L Proc Control Instr Lab

MET 280 Fluid Mechanics (3) Familiarization with the basic components of Fluid Systems (hydraulic and pneumatics), such as pumps, cylinders, valves and accessories. Study of principles for hydraulics and flow measurements. Two class hours and laboratory. Pre-requisite: Elementary Algebra or Permission of Instructor.

MET 280L Fluid Mechanics

MET 290 Int to Robotics: Mech and Cntrl (4) Imparts skills in the theory and applications of the burgeoning field of robot technology, from the kinematics of manipulators to sensing devices and robotic software/programming. The content of the course consists of: kinematics of robot manipulators, drive methods, robotic sensing and vision, controls and control methods, computer hardware for robotic systems, and robot motion programming. Pre-requisite: MAT 101, MET 274.
MET 291 Cooperative Education (3) Designed to provide work experience directly related to the student's field of study. A learning contract, containing specific educational objectives related to the work experience and the student's field of study is developed by the student and the faculty co-op coordinator. Course requirements include a minimum of 180 hours of work in the student's field of study, maintenance of a work journal to record hours worked and duties performed and a final paper. This will allow the student to earn 3 credit hours. The student's performance will be evaluated by the faculty co-op coordinator on the basis of meeting the objectives in the learning contract and satisfactory evaluations by the employer. A letter grade will be assigned. Pre-requisite: Approval by the MET department.

Modern Languages

FOR MORE INFORMATION, CONTACT THE MODERN LANGUAGES DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A274, (315) 498-2305.

A native speaker of one of the languages offered at OCC will not be given college credit for enrolling in an elementary course in that language. Placement into language courses depends on previous experience with the language. Please see page 66 for the foreign language placement policy or contact the department for more information.

American Sign Language

ASL 113 American Sign Language I (3) A beginning course in American Sign Language as used within the American Deaf community. A basic study of manual/visual communication, with an introductory phase in communicating with one's eyes, face and hands; continuing with instruction and practice in vocabulary, sentence structure and elementary conversations. Receptive skills (reading signs) and expressive skills (signing one's own thoughts) will be emphasized. An introduction to Deaf culture will be included. This course fulfills the HMT language requirement for students who received credit for two years of a language other than English (except ASL) in high school. Pre-requisite: FRE 101 or Equivalent.

ASL 114 American Sign Language II (3) This course continues the basic study of American Sign Language. It will expand the student's receptive and expressive knowledge of vocabulary; and use of signing space and non-manual aspects of ASL grammar such as facial expressions and body posture. This course develops receptive and expressive skills in grammatical structures, short dialogues and narratives. Further instruction in Deaf culture will be included. This course fulfills the HMT language requirement for students who received credit for two years of language other than English (except ASL) in high school. Pre-requisite: ASL 113 or Equivalent.

ASL 213 American Sign Language III (3) American Sign Language III continues development of receptive and expressive skills. It provides exposure to more complex vocabulary and grammatical structures. The student will be exposed to more creative use of expression, classifiers and signing space. Short stories, narratives and conversations focusing on people in their environment will be used during the course. Discussions on issues related to the Deaf community will be included. This course fulfills the HMT language requirement for students who received credit for two years of a language other than English (except ASL) in high school. Pre-requisite: ASL 114 or Equivalent.

ASL 214 American Sign Language IV (3) American Sign Language IV develops the student's receptive and expressive skills in more complex grammatical features, vocabulary building and comprehension of medium length dialogues and narratives. Storytelling, narratives and conversations focusing on descriptions and talking about events will be used consistently during the course. Discussions on issues related to the Deaf community will be included. This course fulfills the HMT language requirement for students who received credit for two years of a language other than English (except ASL) in high school. Pre-requisite: ASL 213 or Equivalent.

French

FRE 100 Basic French for Communication (3) A one-semester multimedia course in basic French designed for those who need a rudimentary foundation for communication. An audio program, videos and classroom activities provide real-life contexts for conversation. The course emphasizes basic oral communication for giving and getting information, expressing needs and wants, and describing activities. The culture of the French-speaking world is also studied. This course does not fulfill the language requirement for any curriculum, and is not a substitute for FRE 101 nor a foundation course for further study.

FRE 101 Elementary French I (3) The emphasis is on the acquisition of the basic language skills of speaking, reading, and writing. For students beginning the language.

FRE 102 Elementary French II (3) The emphasis is on the acquisition of the basic language skills of speaking, reading, and writing. For students beginning the language. Pre-requisite: FRE 101, FRE 105 or Equivalent.

FRE 105 French for Business I (3) Elementary French for Business I is designed for students beginning their study of French. This course emphasizes the acquisition of the basic language skills of listening comprehension, speaking, reading and writing for the purpose of socializing, exchanging information and expressing personal attitudes
in practical business situations. French business culture is also studied and contrasted with that of American business communities. Students who have successfully completed French 103 will not receive credit toward degree for French 105. However, students wishing a sequence may take French 104 or French 106.

**FRE 106 French (3)** A continuation of Elementary French for Business I, This course emphasizes the further acquisition of the basic language skills of listening comprehension, speaking, reading and writing for the purposes of socializing, exchanging information and expressing personal attitudes in practical business situations. French business culture is also studied more extensively. Students who have successfully completed French 104 will not receive credit toward degree for Elementary French for Business II. Pre-requisite: FRE 101, FRE 105 or Equivalent.

**FRE 165 - Transitional French (3)** A thorough review of the basic linguistic, grammatical and idiomatic structures combined with listening, speaking, reading and writing practice within an authentic and practical cultural context, to prepare students for further study of French. Pre-requisites: FRE 102 or equivalent.

**FRE 201 Intermediate French I (3)** A continued review of basic structures and study of more complex linguistic idiomatic and grammatical concepts through intensive practice in listening, speaking and writing within an authentic cultural context. Emphasis is on listening and speaking. Pre-requisite: FRE 165 or equivalent.

**FRE 202 Intermediate French II (3)** A continued review of basic structure and study of more complex linguistic, idiomatic and grammatical concepts through intensive practice in listening, speaking, reading and writing within an authentic cultural context. Emphasis is on reading and writing. Pre-requisite: FRE 201 or equivalent.

**FRE 205 Conversation, Composition and Reading I (3)** Intensive work in conversation and composition based on reading and analysis of representative literary masterpieces. Oral and written reports in French. Class conducted in French. Solid preparation in grammar recommended. Pre-requisite: FRE 201, FRE 202 or equivalent.

**FRE 206 Conversation, Composition and Reading II (3)** Intensive work in conversation and composition based on reading and analysis of representative literary masterpieces. Oral and written reports in French. Class conducted in French. Solid preparation in grammar recommended. Pre-requisite: FRE 205.

**FRE 215 Literature and Civilization in English I (3)** A survey of French Literature and Civilization from the Middle Ages to the Renaissance, examining representative works within the context of artistic, historical and intellectual developments. Lectures and readings in English.

**FRE 216 Literature and Civilization in English II (3)** A survey of French Literature and Civilization from the Seventeenth to the Twentieth Century, examining representative works within the context of artistic, historical, and intellectual developments. Lectures and readings in English.

**German**

**GER 101 Elementary German I (3)** The emphasis is on the acquisition of basic language skills of speaking, reading, and writing. For students beginning the language.

**GER 102 Elementary German II (3)** The emphasis is on the acquisition of basic language skills of speaking, reading, and writing. For students beginning the language. Pre-requisite: GER 101 or Equivalent.

**GER 201 Intermediate German I (3)** A thorough review of grammatical structures combined with oral and written practice and readings to develop the student's proficiency in German. Pre-requisite: GER 102 or Equivalent. (see FL Placement Policy.)

**GER 202 Intermediate German II (3)** A thorough review of grammatical structures combined with oral and written practice and readings to develop the Student's proficiency in German. Pre-requisite: GER 201 or Equivalent.

**Italian**

**ITA 100 Basic Italian for Communication (3)** A one-semester multimedia course in basic Italian designed for those who need a rudimentary foundation for communication. An audio program, videos and classroom activities provide real-life contexts for conversation. The course emphasizes basic oral communication for giving and getting information, expressing needs and wants, and describing activities. The culture of Italy is also studied. This course does not fulfill the language requirement for any curriculum, is not a substitute for ITA 103 nor a foundation course for further study.

**ITA 101 Elementary Italian I (3)** The emphasis is on the acquisition of basic language skills of speaking, reading, and writing. For students beginning the language.

**ITA 102 Elementary Italian II (3)** The emphasis is on the acquisition of basic language skills of speaking, reading, and writing. For students beginning the language. Pre-requisite: ITA 101 or Equivalent.
JT 201 Intermediate Italian I (3) A thorough review of grammatical structures combined with oral and written practice and readings to develop the student’s proficiency in Italian. Pre-requisite: ITA 102 or Equivalent. (See FL Placement Policy).

ITA 202 Intermediate Italian II (3) A thorough review of grammatical structures combined with oral and written practice and readings to develop the student’s proficiency in Italian. Pre-requisite: ITA 201 or Equivalent.

ITA 215 Literature and Civilization in English I (3) A survey of Italian literature and civilization of the Middle Ages and Renaissance. Selections from the works of Dante, Petrarch, Boccaccio, Machiavelli and Ariosto will be studied in the context of historical and cultural developments. Lectures and readings in English.

ITA 216 Literature and Civilization/English II (3) A survey of Italian literature and civilization from the 18th century to the present. Selections from the works of seminal writers such as Goldoni, Manzoni, Verga, Pirandello and Calvino will be studied in the context of historical and cultural developments. Lectures and readings in English.

Japanese

JPN 103 Elementary Japanese I (3) This course will focus on natural spoken Japanese and learning appropriate behavior for Japanese culture. Emphasis will be on communicative situations with Japanese people in culturally and socially appropriate ways.

JPN 104 Elementary Japanese II (3) This course will focus on natural spoken Japanese and learning appropriate behavior for Japanese culture. Emphasis will be on communicative situations with Japanese people in culturally and socially appropriate ways. Pre-requisite: JPN 103 or equivalent.

Spanish

SPA 100 Basic Spanish for Communication (3) A one-semester course in basic Spanish designed for those who need a rudimentary foundation for communication in their profession. The course emphasizes basic oral communication for giving and getting information, expressing needs and wants, giving orders and describing activities. This course does not fulfill the language requirement for any curriculum, is not a substitute for SPA 101 or a foundation course for further study; and is not open to students who have studied Spanish before. May not be taken concurrently with SPA 101.

SPA 101 Elementary Spanish I (3) The emphasis is on the acquisition of the basic language skills of speaking, reading, and writing. For students beginning the language.

SPA 102 Elementary Spanish II (3) The emphasis is on the acquisition of the basic language skills of speaking, reading, and writing. For students beginning the language. Pre-requisite: SPA 101 or Equivalent.

SPA 165 Transitional Spanish (3) A thorough review of the basic linguistic, grammatical and idiomatic structures combined with listening, speaking, reading and writing practice within an authentic, practical cultural context, to prepare students for further study of Spanish. Pre-requisite: SPA 102 or Equivalent. (see FL placement policy).

SPA 201 Intermediate Spanish I (3) A continued review of basic structures and of more complex linguistic, idiomatic and grammatical concepts through intensive practice in listening, speaking, reading and writing within an authentic cultural context. Emphasis is on listening and speaking. Pre-requisite: SPA 165 or Equivalent, or Permission of Instructor (see FL placement policy).

SPA 202 Intermediate Spanish II (3) A continued review of basic structures and of more complex linguistic, idiomatic and grammatical concepts through intensive practice in listening, speaking, reading and writing within an authentic cultural context. Emphasis is on reading and writing. Pre-requisite SPA 201 or equivalent.

SPA 203 Business Spanish (3) At an intermediate-high level, this course will focus on the unique language and the culture pertinent to doing business with Spanish people or with the Spanish-speaking world. Intensive work in conversation and composition. Solid preparation in grammar recommended. Class conducted entirely in Spanish. Pre-requisite: SPA 202 or Equivalent.

SPA 204 Spanish Literature: an Intro (3) At an intermediate-high level, this course will introduce students to literary concepts and literature from around the Spanish-speaking world. There will be intensive work in conversation and composition. Solid preparation in grammar recommended. Class conducted entirely in Spanish.

SPA 220 - Spanish Communication Through Cinema (3) At an intermediate-high level, this course will focus on the diversity in language and culture of the Spanish-speaking world as represented in cinema. The course includes intensive work in conversation and composition. Solid preparation in grammar is recommended. This class is conducted entirely in Spanish. Pre-requisite: SPA 202 or equivalent.

SPA 223 Spanish Civilization in English (3) A one-semester survey of Spanish civilization and culture with emphasis on the major social, intellectual, and artistic trends. Lectures and readings in English.
SPA 224 Latin American Civilization in English (3) A one-semester course examining the geographical areas, Indian cultures, Spanish heritage, and 20th century problems of Latin America. Lectures and readings in English.

SPA 230 Latinos in the U.S. (3) A survey of the major Latino groups living in the United States, this course will focus on the most significant issues facing these populations as well as notable literary and artistic contributions they have made. Emphasizing literature, art, music and film, its primary aim is to provide a basic introduction to Latino cultures in the U.S. Taught in English. Does not fulfill the foreign language requirement for A.A. in Humanities.

SPA 231 Latinos in the U.S. (3) In Spanish A survey of the major Latino groups living in the United States, this course will focus on the most significant issues facing these populations as well as notable literary and artistic contributions they have made. Emphasizing literature, art, music and film, its primary aim is to provide a basic introduction to Latino cultures in the U.S.

Music


MUS 066 Beg Music Reading I (0/1) An introductory course for Music Reading (MUS 101R). Course content includes instruction in the recognition/performance of rhythms, pitches, meters and notational systems.

MUS 067 Beg Music Reading II (0/1) A continuation of MUS 066 which includes instruction in the recognition/performance of rhythms, pitches and meters. Pre-requisite: Permission of Instructor.

MUS 100A Convocation (1)
MUS 100B Convocation (1)
MUS 100C Convocation (1)
MUS 100D Convocation (1)

Mus101D Diction for Singers A basic study of French, German, and Italian diction with practical application to singing. For music students or Permission of Instructor required of all voice majors.

MUS 101K Keyboard Harmony (1) Explores basic concepts of tonality/modality; primary triads and their inversions, modes and modal inflections; secondary triads; standard chord progressions involving these elements, and chord nomenclature.

MUS 101R Music Reading (1) Music Reading (solfeggio) is a four-semester course designed to aid the Music student in aural recognition of pitch and rhythm by sight and develop the ability to sing back or clap back the same. Sight-singing exercises are of increasing complexity. Recognition of intervals and chords by sight and sound and dictation study (the ability to indicate prescribed pitches and/or rhythmical patterns on music staff paper) are required. Pre-requisite for each semester is successful completion of the prior semester.

MUS 101T Music Theory (3) Covers notation, scales (major, minor and chromatic), tempo designations, intervals, triads, phase structure and cadences, modes and beginning study of four-part harmony and figure bass. Ear training in all areas is included. Pre-requisite: Music Theory test and Permission of Instructor.

MUS 102K Keyboard Harmony (1) A continuation of MUS 101K using various musical excerpts embodying first-semester materials. Extensive work is done in the minor mode. There is continued study of chord nomenclature, and non-harmonic tones are introduced. Pre-requisite: MUS 101K.

MUS 102R Music Reading (1) Music Reading (solfeggio) is a four-semester course designed to aid the Music student in aural recognition of pitch and rhythm by sight and develop the ability to sing back or clap back the same. Sight-singing exercises are of increasing complexity. Recognition of intervals and chords by sight and sound and dictation study (the ability to indicate prescribed pitches and/or rhythmical patterns of music staff paper) are required. Pre-requisite for each semester is successful completion of the prior semester.

MUS 102T Music Theory (3) Four-part harmony and figured bass studies are continued; counterpoint, instrumental transpositions and non-harmonic tones are introduced. Ear training is continued. Pre-requisite: MUS 101T.

MUS 103 Music Appreciation (3) An introduction to the basic elements of music. Areas explored include the symphony orchestra and other performing media. The course investigates styles and techniques of the 18th and 19th Centuries through the use of recordings and visual aids with the aim of more complete understanding and enjoyment of the art. Designed as an elective for liberal arts students not majoring in music.

MUS 104 Music Appreciation (3) An examination of the music of today. Topics include the music of other cultures, various types of popular music, music in relation to other media (films, shows, electronics, etc.), and 20th century orchestral/wind ensemble usage. (MUS 103 not needed for MUS 104).

MUS 105 Music History I (3) A survey of music in western civilization from Gregorian chant through the baroque period. Not open to non-music majors.
MUS 106 Music History II (3) A continuation of MUS 105 from Classic through 20th Century. Not open to non-music majors.

MUS 107 Private Study (2) Private study for each student in voice, piano, guitar, electric bass and drum set or an orchestral or band instrument depending upon availability of faculty. Department audition and permission card required. Additional fee for private lessons.

MUS 107A Drum Set Lessons
MUS 107B Flute Lessons
MUS 107C Oboe Lessons
MUS 107D Clarinet Lessons
MUS 107E Bassoon Lessons
MUS 107F Saxophone Lessons
MUS 107G Trumpet Lessons
MUS 107H Fr. Horn Lessons
MUS 107J Trombone Lessons
MUS 107K Euphonium Lessons
MUS 107M Tuba Lessons
MUS 107N Piano Lessons
MUS 107P Percussion Lessons
MUS 107Q Elec. Bass Lessons
MUS 107S Harp Lessons
MUS 107T Guitar Lessons
MUS 107U Voice Lessons
MUS 107V Violin Lessons
MUS 107W Viola Lessons
MUS 107X Cello Lessons
MUS 107Y Str. Bass Lessons
MUS 107Z Organ Lessons

MUS 108 Applied Music (2) Major private study for each student in voice, piano, guitar, electric bass and drum set or an orchestral or band instrument depending upon availability of faculty. Department audition and permission card required. Additional fee for private lessons.

MUS 108A Drum Set Lessons
MUS 108B Flute Lessons
MUS 108C Oboe Lessons
MUS 108D Clarinet Lessons
MUS 108E Bassoon Lessons
MUS 108F Saxophone Lessons
MUS 108G Trumpet Lessons
MUS 108H Fr. Horn Lessons
MUS 108J Trombone Lessons
MUS 108K Euphonium Lessons
MUS 108M Tuba Lessons
MUS 108N Piano Lessons
MUS 108P Percussion Lesson
MUS 108Q Elec. Bass Lessons
MUS 108S Harp Lessons
MUS 108T Guitar Lessons
MUS 108U Voice Lessons
MUS 108V Violin Lessons
MUS 108W Viola Lessons
MUS 108X Cello Lessons
MUS 108Y St. Bass Lessons
MUS 108Z Organ Lessons

MUS 109 Private Study (2) Private study for each student in voice, piano, guitar, electric bass and drum set or an orchestral or band instrument depending upon availability of faculty. Department audition and permission card required. Additional fee for private lessons.

MUS 109A Drum Set Lessons
MUS 109B Flute Lessons
MUS 109C Oboe Lessons
MUS 109D Clarinet Lessons
MUS 109E Bassoon Lessons
MUS 109F Saxophone Lessons
MUS 109G Trumpet Lessons
MUS 109H Fr. Horn Lessons
MUS 109J Trombone Lessons
MUS 109K Euphonium Lessons
MUS 109M Tuba Lessons
MUS 109N Piano Lessons
MUS 109P Percussion Lessons
MUS 109Q Elec. Bass Lessons
MUS 109S Harp Lessons
MUS 109T Guitar Lessons
MUS 109U Voice Lessons
MUS 109V Violin Lessons
MUS 109W Viola Lessons
MUS 109X Cello Lessons
MUS 109Y St. Bass Lessons
MUS 109Z Organ Lessons
MUS 110 Private Study (2) Private study for each student in voice, piano, guitar, electric bass and drum set or an orchestral or band instrument depending upon availability of faculty. Department audition and permission card required. Additional fee for private lessons.

MUS 110A Drum Set Lessons
MUS 110B Flute Lessons
MUS 110C Oboe Lessons
MUS 110D Clarinet Lessons
MUS 110E Bassoon Lessons
MUS 110F Saxophone Lessons
MUS 110G Trumpet Lessons
MUS 110H Fr. Horn Lessons
MUS 110J Trombone Lessons
MUS 110K Euphonium Lessons
MUS 110M Tuba Lessons
MUS 110N Piano Lessons
MUS 110P Percussion Lessons
MUS 110Q Elec. Bass Lessons
MUS 110S Applied Harp
MUS 110T Guitar Lessons
MUS 110U Voice Lessons
MUS 110V Violin Lessons
MUS 110W Viola Lessons
MUS 110X Cello Lessons
MUS 110Y St. Bass Lessons
MUS 110Z Organ Lessons
MUS 111A Drum Set Lessons
MUS 111B Flute Lessons
MUS 111C Oboe Lessons
MUS 111D Clarinet Lessons
MUS 111E Bassoon Lessons
MUS 111F Saxophone Lessons
MUS 111G Trumpet Lessons
MUS 111H Fr. Horn Lessons
MUS 111J Trombone Lessons
MUS 111K Euphonium Lessons
MUS 111M Tuba Lessons
MUS 111N Piano Lessons
MUS 111P Percussion Lessons
MUS 111Q Elec. Bass Lessons
MUS 111S Harp Lessons
MUS 111T Guitar Lessons
MUS 111U Voice Lessons
MUS 111V Violin Lessons
MUS 111W Viola Lessons
MUS 111X Cello Lessons
MUS 111Y St. Bass Lessons
MUS 111Z Organ Lessons
MUS 112A Drum Set Lessons
MUS 112B Flute Lessons
MUS 112C Oboe Lessons
MUS 112D Clarinet Lessons
MUS 112E Bassoon Lessons
MUS 112F Saxophone Lessons
MUS 112G Trumpet Lessons
MUS 112H Fr. Horn Lessons
MUS 112J Trombone Lessons
MUS 112K Euphonium Lessons
MUS 112M Tuba Lessons
MUS 112N Piano Lessons
MUS 112P Percussion Lessons
MUS 112Q Elec. Bass Lessons
MUS 112T Guitar Lessons
MUS 112U Voice Lessons
MUS 112V Violin Lessons
MUS 112W Viola Lessons
MUS 112X Cello Lessons
MUS 112Y St. Bass Lessons
MUS 112Z Organ Lessons

MUS 113A Piano Minor (1) A beginning course designed for non-music majors to teach basic technique/reading on piano in an electric piano lab.

MUS 113 Piano Minor (1) Non-piano majors must study piano for four semesters or until able to pass a proficiency examination.

MUS 114 Piano Minor (1) Non-piano majors must study piano for four semesters or until able to pass a proficiency examination.

MUS 115 Piano Minor (1) Non-piano majors must study piano for four semesters or until able to pass a proficiency examination.

MUS 116 Piano Minor (1) Non-piano majors must study piano for four semesters or until able to pass a proficiency examination.
The following Reperatory courses earn one credit:
MUS 121A Drum Set Rep.
MUS 121B Flute Repertory
MUS 121C Oboe Repertory
MUS 121D Clarinet Rep.
MUS 121E Bassoon Repertory
MUS 121F Saxophone Rep.
MUS 121G Trumpet Rep.
MUS 121H French Horn Rep.
MUS 121J Low Brass Rep.
MUS 121M Tuba Repertory
MUS 121N Piano Rep.
MUS 121P Percussion Rep.
MUS 121Q Electric Bass Rep
MUS 121T Guitar Repertory
MUS 121U Voice Repertory
MUS 121V Violin/Viola Rep.
MUS 121Y String Rep.
MUS 121Z Organ Repertory
MUS 122A Drum Set Rep.
MUS 122B Flute Repertory
MUS 122C Oboe Repertory
MUS 122D Clarinet Rep.
MUS 122E Bassoon Repertory
MUS 122F Saxophone Rep.
MUS 122G Trumpet Rep.
MUS 122H French Horn Rep.
MUS 122J Low Brass Rep.
MUS 122M Tuba Repertory
MUS 122N Piano Rep.
MUS 122T Guitar Repertory
MUS 122U Voice Repertory
MUS 122V Violin/Viola Rep.
MUS 122Y String Rep.
MUS 122Z Organ Repertory

The following Ensembles earn .5 credit:
MUS 151B Flute Choir
MUS 151C String Ensemble
MUS 151D Clarinet Choir
MUS 151E Wind Ensemble
MUS 151F Sax Ensemble
MUS 151G Latin Ensemble
MUS 151H Horn Ensemble
MUS 151J Big Band Jazz
MUS 151L Woodwind Quintet
MUS 151P Percussion Ensemble
MUS 151R Chamber Singers
MUS 151S Accompanying
MUS 151T Guitar Ensemble
MUS 151V OCC Singers
MUS 151X Improvisation
MUS 151Y Brass Quintet
MUS 152A Barbershop Quartet
MUS 152B Flute Choir
MUS 152C String Ensemble
MUS 152D Clarinet Choir
MUS 152E Wind Ensemble
MUS 152F Sax Ensemble
MUS 152G Latin Ensemble
MUS 152H French Horn Ens.
MUS 152J Big Band Jazz
MUS 152L Woodwind Quintet
MUS 152P Percussion Ensemble
MUS 152R Chamber Signers
MUS 152S Accompanying
MUS 152T Guitar Ensemble
MUS 152V OCC Singers
MUS 152X Improvisation
MUS 152Y Brass Quintet

MUS 160 Intro to Music Theory (3) A course in basic music theory, including notation, scales, intervals, rhythmic elements, ear training, chords and mode+s. Designed for the non-music major and or perspective music major, as determined by audition process. Does not fulfill Music curriculum requirements.
MUS 161 Music Theory II (3) Intro continues -- studies of scales, intervals, key signatures, ear training and chord studies. Minor scales and harmonization of melodies are introduced. Pre-requisite: MUS 160 or Permission of Instructor. Not applicable to Music curriculum requirements.

MUS 162T Guitar Class I (2) Class instruction for the beginning guitarist. Both pick and finger-style (classical) guitar are taught simultaneously. A primary goal will be to develop sight reading skills.

MUS 162U Voice Class I (2) Class instruction for the beginner and the vocalist needing a refresher course in voice fundamentals. Major emphasis given to breathing exercises and vocalization technique. Classical and folk singing in groups and individual setting.

MUS 163T Guitar Class II (3) A continuation of techniques from 162T.

MUS 163U Voice Class II (2) Continuation of techniques from 162U.

MUS 164 Intro to Ethnic Music - African (3)

MUS 166 Drum Set II (1) Basic rhythmic reading skills taught in a class situation. Additional material covered includes basic hand technique, coordination exercises, chart reading. Playing time on drum set dependent on class size/background of those registered. No Pre-requisite, but some musical background is preferable.

MUS 169 Drum Set II (1) A continuation of Drum Set I with more emphasis on playing time/practical applications. Pre-requisite: MUS 168 or Permission of Instructor.

MUS 170 Jazz History (3) A study of jazz, including analysis and survey of jazz history.

MUS 181 Music Business (3) The purpose of this course is to study the power structure and operation of the music business from large companies to retail stores, and to understand the way money is being distributed in a multiplicity of jobs from individual artists to company presidents.

MUS 182 Music Literature I (1) A study of the historical development of the piano and its literature traced through the most important works written between 1800 and 1850. Will emphasize an aural differentiation of the styles of Chopin, Mendelssohn and the young Liszt. Pre-requisite: MUS piano major.

MUS 183 Music Literature II (1) A study of the historical development of piano literature traced through the most important works written between 1850 and 1900. Will emphasize an aural differentiation of the styles of Brahms, the mature Liszt, Grieg, Franck, Albeniz, Reger, and the young Busoni. Pre-requisite: MUS piano major.

MUS 184 Music Literature III (1) A study of the historical development of piano literature traced through the most important works written during the 20th century. Will emphasize an aural differentiation of the styles of Debussy, Ravel, Rachmaninoff, Prokofiev, Bartok, Stravinsky, Busoni, Schoenberg, Boulez, and Stockhausen. Pre-requisite: MUS piano major.

MUS 185 Piano Literature I (1) A study of the historical development of piano literature traced through the most important works written between 1850 and 1900. Will emphasize an aural differentiation of the styles of Schubert, Beethoven, Chopin, Schumann, Weber, Mendelssohn and the young Liszt. Pre-requisite: MUS piano major.

MUS 186 Piano Literature II (1) A study of the historical development of piano literature traced through the most important works written between 1800 and 1850. Will emphasize an aural differentiation of the styles of Schubert, Beethoven, Chopin, Schumann, Weber, Mendelssohn and the young Liszt. Pre-requisite: MUS piano major.

MUS 187 Piano Lit III (1) A study of the historical development of piano literature traced through the most important works written during the 20th century. Will emphasize an aural differentiation of the styles of Debussy, Ravel, Rachmaninoff, Prokofiev, Bartok, Stravinsky, Busoni, Schoenberg, Boulez, and Stockhausen. Pre-requisite: MUS piano major.

MUS 188 Piano Lit IV (1) A study of the historical development of piano literature traced through the most important works written during the 20th century. Will emphasize an aural differentiation of the styles of Debussy, Ravel, Rachmaninoff, Prokofiev, Bartok, Stravinsky, Busoni, Schoenberg, Boulez, and Stockhausen. Pre-requisite: MUS piano major.

MUS 189 Piano Lit V (1) A study of the historical development of piano literature traced through the most important works written during the 20th century. Will emphasize an aural differentiation of the styles of Debussy, Ravel, Rachmaninoff, Prokofiev, Bartok, Stravinsky, Busoni, Schoenberg, Boulez, and Stockhausen. Pre-requisite: MUS piano major.

MUS 201K Keyboard Harmony (1) Explores secondary dominants, diminished seventh chords, augmented sixth chords, chord substitution, chord nomenclature; pieces embodying these elements are studied. Pre-requisite: MUS 101K, MUS 102K or Permission of Instructor.

MUS 201R Music Reading (1) Music Reading (solfeggio) is a four-semester course designed to aid the Music student in aural recognition of pitch and rhythm by sight and develop the ability to sing back or clap back the same. Sight-singing exercises are of increasing complexity. Recognition of intervals and chords by sight and sound and dictation study (the ability to indicate prescribed pitches and/or rhythmical patterns on music staff paper) are required. Pre-requisite for each semester is successful completion of the prior semester.

MUS 202K Keyboard Harmony II (1) Playing styles are discussed, more chord substitutions are introduced, playing from lead sheets and harmonizing unmarked melodies are explained, and compound and polytonal chords are defined. Pre-requisite: MUS 101T, MUS 102T or Permission of Instructor Honors: Pre-requisite: 3.5 G.P.A. or Permission of Instructor.

MUS 202K Keyboard Harmony II (1) Playing styles are discussed, more chord substitutions are introduced, playing from lead sheets and harmonizing unmarked melodies are explained, and compound and polytonal chords are defined. Pre-requisite: MUS 101K, MUS 102K, MUS 201K or Permission of Instructor.

MUS 202R Music Reading (1) Music Reading (solfeggio) is a four-semester course designed to aid the Music student in aural recognition of pitch and rhythm by sight and develop the ability to sing back or clap back the same. Sight-singing exercises are of increasing complexity. Recognition of intervals and chords by sight and sound and dictation study (the ability to indicate prescribed pitches and/or rhythmical patterns on music staff paper) are required. Pre-requisite for each semester is successful completion of the prior semester.
MUS 202T Music Theory (3) Construction and analysis of all borrowed chords, Neapolitan sixth, and other altered chords; chromatic medians, and modulation to foreign keys are studied. Ninth, eleventh, and thirteenth chords are constructed and analyzed. Four-part diction is continued. Prerequisite: MUS 101T, MUS 102T, MUS 201T, or Permission of Instructor.

MUS 203 Introduction to Composition (3) This is a course in beginning music composition. Aesthetic concepts and specific detailed theoretical concepts and techniques, particularly of the 20th century, will be covered as will introductory 18th century counterpoint. Students must have one year of basic music theory and be able to read music to take this course. Prerequisites: MUS 102T and MUS 106 or POI.

The following Music Lessons earn 2 credits:
MUS 211A Drum Set Lessons
MUS 211B Flute Lessons
MUS 211C Oboe Lessons
MUS 211D Clarinet Lessons
MUS 211E Bassoon Lessons
MUS 211F Saxophone Lessons
MUS 211G Trumpet Lessons
MUS 211H Fr. Horn Lessons
MUS 211J Trombone Lessons
MUS 211K Euphonium Lessons
MUS 211M Tuba Lessons
MUS 211N Piano Lessons
MUS 211P Percussion Lessons
MUS 211Q Elec. Bass Lessons
MUS 211S Applied Harp
MUS 211T Guitar Lessons
MUS 211U Voice Lessons
MUS 211V Violin Lessons
MUS 211W Viola Lessons
MUS 211X Cello Lessons
MUS 211Y St. Bass Lessons
MUS 211Z Organ Lessons
MUS 212A Drum Set Lessons
MUS 212B Flute Lessons
MUS 212C Oboe Lessons
MUS 212D Clarinet Lessons
MUS 212E Bassoon Lessons
MUS 212F Saxophone Lessons
MUS 212G Trumpet Lessons
MUS 212H Fr. Horn Lessons
MUS 212J Trombone Lessons
MUS 212K Euphonium Lessons
MUS 212M Tuba Lessons
MUS 212N Piano Lessons
MUS 212P Percussion Lessons
MUS 212Q Elec. Bass Lessons
MUS 212T Guitar Lessons
MUS 212U Voice Lessons
MUS 212V Violin Lessons
MUS 212W Viola Lessons
MUS 212X Cello Lessons
MUS 212Y St. Bass Lessons
MUS 212Z Organ Lessons
MUS 215 Applied Major (2) Private study in voice, piano, guitar, organ, electric bass drum set or an orchestral or band instrument - brass, woodwind, strings, percussion. Department audition and permission card required. Additional fee for private lessons.

MUS 215A Drum Set Lessons
MUS 215B Flute Lessons
MUS 215C Oboe Lessons
MUS 215D Clarinet Lessons
MUS 215E Bassoon Lessons
MUS 215F Saxophone Lessons
MUS 215G Trumpet Lessons
MUS 215H Fr. Horn Lessons
MUS 215J Trombone Lessons
MUS 215K Euphonium Lessons
MUS 215M Tuba Lessons
MUS 215N Piano Lessons
MUS 215P Percussion Lessons
MUS 215Q Elec. Bass Lessons
MUS 215T Guitar Lessons
MUS 215U Voice Lessons
MUS 215V Violin Lessons
MUS 215W Viola Lessons
MUS 215X Cello Lessons
MUS 215Y St. Bass Lessons
MUS 215Z Organ Lessons
MUS 216B Flute Lessons
MUS 216C Oboe Lessons
MUS 216D Clarinet Lessons
MUS 216E Bassoon Lessons
MUS 216F Saxophone Lessons
MUS 216G Trumpet Lessons
MUS 216H Fr. Horn Lessons
MUS 216J Trombone Lessons
MUS 216K Euphonium Lessons
MUS 216M Tuba Lessons
MUS 216N Piano Lessons
MUS 216P Percussion Lessons
MUS 216T Guitar Lessons
MUS 216U Voice Lessons
MUS 216V Violin Lessons
MUS 216W Viola Lessons
MUS 216X Cello Lessons
MUS 216Y St. Bass Lessons
MUS 216Z Organ Lessons
MUS 217B Flute Lessons
MUS 217C Oboe Lessons
MUS 217D Clarinet Lessons
MUS 217E Bassoon Lessons
MUS 217F Saxophone Lessons
MUS 217G Trumpet Lessons
MUS 217H Fr. Horn Lessons
MUS 217J Trombone Lessons
MUS 217K Euphonium Lessons
MUS 217M Tuba Lessons
MUS 217N Piano Lessons
MUS 217P Percussion Lessons
MUS 217T Guitar Lessons
MUS 217U Voice Lessons
MUS 217V Violin Lessons
MUS 217W Viola Lessons
MUS 217X Cello Lessons
MUS 217Y St. Bass Lessons
MUS 217Z Organ Lessons
MUS 218B Flute Lessons
MUS 218C Oboe Lessons
MUS 218D Clarinet Lessons
MUS 218E Bassoon Lessons
MUS 218F Saxophone Lessons
MUS 218G Trumpet Lessons
MUS 218H Fr. Horn Lessons
MUS 218J Trombone Lessons
MUS 218K Euphonium Lessons
MUS 218M Tuba Lessons
MUS 218N Piano Lessons
MUS 218P Percussion Lessons
MUS 218T Guitar Lessons
MUS 218U Voice Lessons
MUS 218V Violin Lessons
MUS 218W Viola Lessons
MUS 218X Cello Lessons
MUS 218Y St. Bass Lessons
MUS 218Z Organ Lessons
MUS 220A Drum and Bugle Corp
MUS 221A Drum Set Rep.
MUS 221B Flute Repertory
MUS 221C Oboe Repertory
MUS 221D Clarinet Rep.
MUS 221E Basoon Repertory
MUS 221F Saxophone Rep.
MUS 221G Trumpet Rep.
MUS 221H French Horn Rep.
MUS 221J Low Brass Rep.
MUS 221M Tuba Repertory
MUS 221N Piano Rep.
MUS 221P Percussion Rep.
MUS 221Q Electric Bass Rep
MUS 221T Guitar Repertory
MUS 221U Voice Repertory
MUS 221V Violin/Viola Repertory
MUS 221Y String Rep.
MUS 221Z Organ Repertory
MUS 222A Drum Set Rep.
MUS 222B Flute Repertory
MUS 222C Oboe Repertory
MUS 222D Clarinet Rep.
MUS 222E Basoon Repertory
MUS 222F Saxophone Rep.
MUS 222G Trumpet Rep.
MUS 222H French Horn Rep.

Need more information? Check our Web site: www.sunyocal.edu
MUS 222J Low Brass Rep.
MUS 222M Tuba Repertory
MUS 222N Piano Rep.
MUS 222P Percussion Rep.
MUS 222Q Electric Bass Repertory
MUS 222T Guitar Repertory
MUS 222U Voice Repertory
MUS 222V Violin/Viola Repertory
MUS 222Y String Repertory
MUS 222Z Organ Repertory

MUS 223B Soph Flute Rep
MUS 223P Percussion Rep.
MUS 223U Soph Voice Rep
MUS 223Y Soph Cello/Str Bs Rep

The following Ensembles earn .5 credit:
MUS 251B Flute Choir
MUS 251C String Ensemble
MUS 251D Clarinet Choir
MUS 251E Wind Ensemble
MUS 251F Sax Ensemble
MUS 251G Latin Ensemble
MUS 251H Horn Ensemble
MUS 251J Big Band Jazz
MUS 251L Woodwind Quintet
MUS 251P Percussion Ensemble
MUS 251R Chamber Singers
MUS 251S Accompanying
MUS 251T Guitar Ensemble
MUS 251V OCC Singers
MUS 251X Improvisation
MUS 252B Flute Choir
MUS 252C String Ensemble
MUS 252D Clarinet Choir
MUS 252E Wind Ensemble
MUS 252F Saxophone Ensemble
MUS 252G Latin Ensemble
MUS 252H Horn Ensemble
MUS 252J Big Band Jazz
MUS 252L Woodwind Quintet
MUS 252P Percussion Ensemble
MUS 252R Chamber Singers
MUS 252S Accompanying
MUS 252T Guitar Ensemble
MUS 252V OCC Singers
MUS 252X Improvisation
MUS 252Y Brass Quintet

Nursing

For more information, contact the nursing department in Ferrante Hall, Room F104, (315) 498-2360.

NUR 180 Nursing Concepts I (1) Introduces the concepts essential for applying Level I human needs theory in the clinical setting. Concepts stressed are: an effective approach to learning, the role of the nurse within the health care system; problem solving/introduction to the nursing process; and introduction to human needs theory. Demonstration of application of these concepts in the clinical setting in the roles of provider of care, manager of care, and member within the discipline of nursing is a requirement of NUR 180. Successful completion of Level I clinical is required for a final grade in NUR 180. Pre-requisite: Matriculated Nursing student.

NUR 181 Activity/Rest I (1) In this course students apply nursing process in the human needs area of activity and rest. Students are introduced to the client's need of alternate periods of activity and rest. Students learn principles of body alignment/mechanics and how to apply them to their own activities as well as for clients. Students also learn to assess activity and rest needs and to provide for these needs by assisting clients to move effectively, performing range of motion exercises, bathing and positioning clients, and bed making. Some factors of growth and development are considered. A brief introduction to medications used to promote rest is included. Co-requisite: NUR 180.

NUR 182 Oxygenation I (1) The student will use the nursing process in the human needs area of basic oxygenation. This course introduces students to the need for adequate oxygen supply to maintain cellular metabolism and to the interrelationship of respiratory and cardiovascular function in maintaining oxygen supply. Students learn to assess oxygenation status, plan and implement measures learned to promote respiration/ventilation and circulation and to evaluate their effectiveness. Measures learned to assess oxygenation status include assessment of blood pressure, temperature, pulse and respiration and peripheral circulation. Students learn to promote respiration/ventilation by use of medications, oxygen administration, ventilation aids, breathing exercises. Students learn to promote circulation through the use of the environment and exercise. Co-requisite: NUR 180.

Students apply the nursing process concepts of assessment, planning, intervention, and evaluation in the area of psychosocial needs. They learn open-ended data gathering and relationship development techniques that meet clients’ psychosocial needs at the same time the students are meeting their own professional need of compiling a broad accurate database. Students explore the nature and goals of the professional relationship and learn open-ended techniques to use in each phase to insure that care is client centered. Co-requisite: NUR 180.

NUR 181 Psycho/social Interviewing (1)

This course provides an opportunity for the student to master basic nursing skills in a simulated clinical setting in the Nursing department under the guidance of the instructor in preparation for nursing care in the hospital setting. As provider of care, the student will begin to utilize the steps of the nursing process (assessing, planning, implementing, and evaluating) in conjunction with these nursing skills. As manager of care, the student will consider cost effectiveness in utilizing materials and learn to use channels of communication. As member within the discipline of nursing, the student will use appropriate terminology, apply theory in performance of skills, work in groups, and use self evaluation. Pre-requisite: Matriculation in Nursing Co-requisite: Completed and current health form on file: CPR certification, malpractice insurance, NUR 180.

NUR 183 Safety/Security I (1) In this course, students apply nursing process in the human needs area of safety and security. Students are introduced to potential environmental and biologic threats to the well-being of the individual such as tissue injury and infection. Nursing assessments and interventions to minimize threats, provide a safe environment, and promote healing such as medical asepsis, isolation, surgical asepsis, wound care, heat and cold therapy, and a safe process to administer medications are included. Co-requisite: NUR 180.

NUR 184 Nutrition and Elimination I (1) This level-one nursing course assists students in learning basic nursing care. The first unit includes assessments and skills such as: collecting and testing urine samples, monitoring intake and output, as well as client care during intravenous therapy. Readings, films and laboratory small groups are used to help the student learn to assess and promote their clients fluid and electrolyte balance. In unit two, the focus switches to normal adult nutritional needs. Areas of special concern to nurses are highlighted as assessing client readiness for diet progression. Units three and four focus on basic assessment and measures to promote the hospitalized person's elimination. Co-requisite: NUR 180.

NUR 185 Psychosocial/Interviewing (1)

This course provides an opportunity for the student to begin to apply theory and skills mastered to date while familiarity with the hospital environment, equipment, and personnel is developed. The student functions in the role of provider of care in collaboration with the instructor to plan for the day of care for the hospitalized adult. The student functions in the role of manager of care, depending on the instructor for guidance with interactions with members of the health care team and seeking assistance when appropriate. The student functions in the role of member within the discipline of nursing, depending on the instructor for guidance to maintain standards, develop relationships, and assume accountability for learning and self evaluation. The student utilizes the steps of the nursing process to perform basic assessments, identify problems, plan on an hourly basis, and implement and evaluate care for the day. Pre-requisite: NUR 191 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 180.

NUR 186 Nutrition and Elimination II (1) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 180. Co-requisite: Completed and current health form on file, current CPR certification, NUR 180.

NUR 191 Intro: Nursing Process (2) This course provides an opportunity for the student to begin to apply theory and skills mastered to date while familiarity with the hospital environment, equipment, and personnel is developed. The student functions in the role of provider of care in collaboration with the instructor to plan for the day of care for the hospitalized adult. The student functions in the role of manager of care, depending on the instructor for guidance with interactions with members of the health care team and seeking assistance when appropriate. The student functions in the role of member within the discipline of nursing, depending on the instructor for guidance to maintain standards, develop relationships, and assume accountability for learning and self evaluation. The student utilizes the steps of the nursing process to perform basic assessments, identify problems, plan on an hourly basis, and implement and evaluate care for the day. Pre-requisite: NUR 191 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 180.

NUR 192 Intro Nursing Process Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 193 Ext Intro Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 194 Ext Intro Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 195 Intro Nursing Process Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 196 Ext Intro Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 197 Ext Intro Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.
NUR 198 Ext Intro Clinical (2) This course provides an opportunity for the student to have additional experience in the hospital setting to achieve clinical proficiency at Level 1. Pre-requisite: NUR 192 Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 180.

NUR 199 Elective Clinical I (2) This course provides an opportunity for the student to have clinical experiences to work on personal objectives and or those beyond the scope of basic preparation. These experiences will allow the student to be supervised in a clinical setting in order to gain additional experiential knowledge, enhance skills learned, and or validate maintenance of skills. Pre-requisite: Permission of Instructor; Co-requisite: completed and current health form on file. Current CPR certification, malpractice insurance.

NUR 220 Nursing Concepts II (1) NUR 220 introduces the concepts essential for applying Level 2 human needs theory in the clinical setting. The five phases of the nursing process are studied individually; cultural and spiritual differences are explored; and the concepts of growth and development are studied. Demonstration of application of these concepts in the clinical setting in the roles of provider of care, manager of care and member within the discipline of nursing is a requirement of NUR 220. Successful completion of Level 2 clinical is required for a final grade in NUR 220. Pre-requisite: NUR 180.

NUR 222 Oxygenation II (1) This course builds on theory and skills learned in NUR 182. Prepares student to develop and utilize the nursing process during respiratory and circulatory physical assessments. Select oxygenation crises are included for nursing assessments and interventions. Select common respiratory and circulatory care modalities are included. Pre-requisite: NUR 180 Co-requisite: NUR 220.

NUR 223 Safety/Security II (1) This course covers various aspects of nursing care and utilization of the nursing process related to a person’s surgical experience, persons experiencing pain, and persons with cancer. Pre-requisite: NUR 180 Co-requisite: NUR 220.

NUR 224 Nutrition/Elimination II (1) This level-two nursing course provides information to assist students in applying the nursing process to address client’s nutrition and elimination needs. Information on defining the client’s problem as well as additional skills for promoting nutrition and elimination are included. Caring for clients receiving IV therapy via infusion pump, nutrition via feeding tubes or monitoring naso-gastric decompression; insertion of indwelling urinary catheters are skills to be demonstrated. Assessing effectiveness of treatment is considered. Pre-requisite: NUR 180 Co-requisite: NUR 220.

NUR 225 Therapeutic Communication (1) Students apply the nursing process in the area of psychosocial needs by identifying clients’ direct and indirect expressions of feelings and by using supportive communication skills to respond to them. Students also apply these supportive communication skills to assessing and intervening in difficult situations and with “difficult” clients. Pre-requisite: NUR 180 Co-requisite: NUR 220.

NUR 230 Intro: Nursing Process/Application (2) This course provides an opportunity for the student with prior nursing credits to consolidate and refine the role of provider of care, using previously learned theory and skills and emphasizing the underlying rationale and principles. Under the guidance of the instructor in a simulated clinical setting the principles of nursing process are applied to the role of provider of care, and the roles of manager of care and member within the discipline of nursing are introduced. Opportunities are provided to reduce the stress of re-entering school, to positively reinforce gained knowledge, and to form support groups by focusing on the skills needed for interpersonal relationships. Appropriate clinical placement will be determined at the end of this experience. Pre-requisite: Matriculation in Nursing and Permission of Instructor. Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 180, NUR 220.

NUR 231 Nursing Process Clinical I (2) This course provides an opportunity for the student to apply theory and skills mastered to date. The student functions in the role of provider of care in collaboration with the instructor to plan for the day of care for hospitalized adults, recognizing diverse characteristics. The student functions in the role of manager of care, depending on the instructor for guidance with interactions with members of health care team and seeking assistance when appropriate. The student functions in the role of member within the discipline of nursing, depending on the instructor for guidance to maintain standards, develop relationships, and assume accountability for learning and self evaluation. The student utilizes the nursing process to perform ongoing assessments, identify problems, select nursing diagnoses, plan, implement and evaluate care for the day. Pre-requisite: NUR 180 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.
NUR 232 Nursing Process Clinical II (2) This course provides the opportunity for the student to apply theory and skills mastered to date. The student functions in the role of provider of care in collaboration with the instructor and members of the nursing team to plan for the day of care for hospitalized adults, recognizing diverse characteristics. The student functions on the role of manager of care, collaborating with the instructor to act as a client advocate, exercising beginning independence with interpersonal interactions, and seeking assistance from the instructor and other members of the nursing team when appropriate. The student functions in the role of member within the discipline of nursing, exercising beginning independence to maintain standards, develop relationships, and assume accountability for learning and self evaluation. The student utilizes the nursing process to perform ongoing assessments, identify problems, select nursing diagnoses, plan, implement and evaluate care for the day. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 233 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 234 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 235 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 236 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 237 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 238 Ext Clinical II (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to achieve clinical proficiency at Level 2. Pre-requisite: NUR 232 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 220.

NUR 239 Elective Clinical II (2) This course provides opportunities for the student to have clinical experiences to work on personal objectives and/or those beyond the scope of basic preparation. These experiences will allow the student to be supervised in the clinical setting in order to gain additional experiential knowledge, enhance skills learned, and/or validate maintenance of skills. Prerequisite: Permission of Instructor; Co-requisite: completed and current health form on file. Current CPR certification, malpractice insurance.

NUR 240 Nursing Concepts III (1) NUR 240 introduces the concepts essential for applying Level 3 theory in the clinical setting. The student will focus on the needs of clients and their families during the current events of hospitalization and in anticipation of future needs. Skills in documenting nursing process via obtaining a health care history, initiating the nursing care plan or referral, and completing a discharge/transfer summary are introduced. The concept of loss, most significantly the loss of health and life, is examined in light of Maslow’s hierarchy of needs. Several bio-ethical issues surrounding dying and death are explored. Skills are introduced to enable the student to assist the client and family experiencing such a loss. Demonstration of the application of these concepts in the clinical setting in the roles of provider of care, manager of care, and member within the discipline of nursing is a requirement of NUR 240. Pre-requisite: NUR 220.

NUR 243 S/S: Pharmacology (1) In this course, students use nursing process to safely administer medications. Students are introduced to the study of drugs, how the drugs acts, and how the drug moves through the body, along with a format to organize drug information for both general classifications of medications and specific medications. Major drug classifications are covered. Drug actions, commons side effects, contraindications, drug interactions, and nursing implications are presented for each classification. The generic name, trade name, usual route(s), and safe dosage parameters of prototype drugs and/or commonly prescribed specific medications are highlighted. Safe administration and responsibilities for intravenous medications are introduced and practiced. Pre-requisite: NUR 220 or Permission of Instructor Co-requisite: NUR 240 or Permission of Instructor.
NUR 245 Psychiatric Theory I (1) In this course students apply concepts of nursing process and therapeutic communication with clients experiencing severe mental/emotional disorders likely to be seen in the acute care psychiatric setting: mood disorders and thought disorders. In addition, they learn assessments and interventions related to psychiatric emergencies: threatening/assaultive behavior and suicide. Pre-requisite: NUR 220 Co-requisite: NUR 240.

NUR 246 Obstetrics Theory I (1) This course focuses on the use of the nursing process for the client/family in various phases of the childbearing process - prenatal, labor, delivery, and postpartum. The emphasis is on the normal aspects of childbearing and views the client within the context of family. The normal prenatal course will be viewed from both the maternal and fetal perspectives and includes the dynamic physiologic, psychosocial, and emotional adaptations. The family will be studied through the process of labor and delivery and the student will learn to assess the postpartum woman and the normal newborn. Pre-requisite: NUR 220 Co-requisite: NUR 240.

NUR 247 Pediatrics Theory I (1) The understanding of the concepts of illness provides a base for the students to learn the skills in this course directed toward mediating the impact of illness and hospitalization on children and their families. The concepts of the nursing process are expanded to enable the student to document the planned and implemented care that will meet the needs of patients and their families throughout the course of illness. Nursing strategies for specific physiologic alterations will be included. Pre-requisite: NUR 220 Co-requisite: NUR 240.

NUR 248 Geriatric Theory (1) This course presents the student with information and tools to use when applying the nursing process to meet the health care needs of the elderly client. Aspects of normal aging and the impact of age-related changes on the able elderly and the dependent elderly are discussed. Assessment guides for physiologic and psychosocial functioning are provided, and nursing interventions for health problems are discussed. Pre-requisite: NUR 220 Co-requisite: NUR 240.

NUR 250 Nursing Elective (4 Units, 1 each) These varied units of instruction provide students with concepts and/or skills in a clinical area of their interest. Included are topics considered to be of value and interest to the nursing practitioner, but beyond the scope of required preparation for all students. These units may be completed in conjunction with the Integrative Clinical Laboratory (NUR 220), with Elective Clinical Laboratory (NUR 259), or independently. A complete listing of elective units and individual Pre-requisites is available form the Nursing department on request.

NUR 251 Assessment: Physical Exam (3) This course will assist the learner to develop his/her skills in the assessment of a client’s health status. It is especially designed for those anticipating employment in acute care settings or those wishing to pursue a B.S. in Nursing. The purchase of a good quality stethoscope is required. Pre-requisite: BIO 107 and BIO 108 and Permission of Instructor, also open to registered nurses.

NUR 253 Safety in Medication Administration: Pharmacology for Nurses (3) ON-LINE COURSE This course focuses on safety issues involved in administering medications in a clinical setting. It covers drug classifications and the effects of that classification on the body systems. The student will be introduced to the basics of pharmacology and how the drugs work right down to the cellular level. This detailed information will make client assessments more meaningful. Case scenarios describing actual medical errors will follow each classification studied. In addition to drug classification, medical calculations, legal aspects and safety issues will be presented.

NUR 255 Psychiatric Clinical: Acute (2) This course provides an opportunity for the student to apply theory and skills mastered to date and to implement new theory and skill learned in the psychiatric client needs course. The student functions in the role of provider of care in collaboration with the instructor, members of the nursing team and the client within the context of family. The student functions in the role of manager of care, exercising limited independence in collaboration with other members of the health care team to act as a client advocate. The student functions in the role of member within the discipline of nursing, exercising limited independence to maintain standards, develop relationships, and assume accountability for learning and self evaluation. The student utilizes the nursing process to perform ongoing assessments that include the family, to select nursing diagnoses, to plan care that incorporates principles of teaching/learning, and to implement and evaluate client and family-centered care. Pre-requisite: NUR 220 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 240.
NUR 256 Ob Clinical: Acute (2) This course provides an opportunity for the student to apply theory and skills mastered to date and to implement new theory and skills learned in the childbearing family needs courses. The student functions in the role of provider of care in collaboration with the instructor, members of the nursing team, the client and the family to plan for the day of care. The student functions in the role of manager of care, exercising limited independence in collaboration with other members of the health care team to act as a client advocate. The student functions in the role of member within the discipline of nursing, exercising limited independence to maintain standards, develop relationships, and assume accountability for learning and self-evaluation. The student utilizes the nursing process to perform ongoing assessments that include the family, to select nursing diagnoses, to plan care that incorporates principles of teaching/learning, and to implement and evaluate client and family-centered care. Pre-requisite: NUR 220 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 240.

NUR 257 Childrearing Family Nursing (2) This course provides an opportunity for the student to apply theory and skills mastered to date and to implement new theory and skills learned in the child-rearing family needs courses. The student functions in the role of provider of care in collaboration with the instructor, members of the nursing team, the client and the family to plan for the day of care. The student functions in the role of manager of care, exercising limited independence in collaboration with other members of the health care team to act as a client advocate. The student functions in the role of member within the discipline of nursing, exercising limited independence to maintain standards, develop relationships, and assume accountability for learning and self-evaluation. The student utilizes the nursing process to perform ongoing assessments that include the family, to select nursing diagnoses, to plan care that incorporates principles of teaching/learning, and to implement and evaluate client and family-centered care. Pre-requisite: NUR 220 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 240.

NUR 259 Elective Clinical III (2) This course provides opportunities for the student to have clinical experiences to work on personal objectives and/or those beyond the scope of basic preparation. These experiences will allow the student to be supervised in the clinical setting in order to gain additional experiential knowledge enhance skills learned, and/or validate maintenance of skills. Pre-requisite: Permission of Instructor Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance.

NUR 260 Nursing Concepts 4 (1) NUR 260 introduces the concepts essential for applying Level 4 theory in the clinical setting. The course material explores the discipline of nursing including historical perspectives; educational, ethical and legal issues; health care delivery and nursing roles; application of nursing process in the management of client care; and professional trends and issues. Demonstration of application of these concepts in the clinical setting in the roles of provider of care, manager of care, and member within the discipline of nursing is a requirement of NUR 260. Pre-requisite: BIO 107, BIO 108 and NUR 240.

NUR 261 A/R: Orthopedic Chronic (1) This course provides the opportunity to apply the nursing process for the client with activity and rest needs. Students will learn assessment techniques for the client with mobility impairment. Principles of nursing care are emphasized for clients undergoing orthopedic treatment modalities for injury impairment. Principles of nursing care are emphasized for clients undergoing orthopedic treatment modalities for injury of disease. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 262 Ox: Cardiac/Respiratory (1) This course provides the opportunity to focus on the use of the nursing process when caring for clients with conditions resulting from interferences with oxygenation related to the upper and lower respiratory tracts, and interferences with oxygenation related to circulation. Pre-requisite: NUR 240 Co-requisite: NUR 260.
NUR 263 S/S: Neurology/Infectious Disease (1) This course provides the opportunity for the student to focus on the use of nursing process for the commonly occurring pathological conditions of the special senses (vision, hearing, smelling, and touch), and nervous systems (central and peripheral). Emphasized will be what the nurse needs to know in order to assess, plan, implement, and evaluate the nursing care for clients with these dysfunctions in order to maximize their potentials. Information necessary for the safe provision of nursing care for clients with communicable and infectious diseases will be provided. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 264 N/E: Gi/Gu/Endo (1) This is a level-four nursing course which provides theory to assist the student in body system assessment. The nursing process is applied to clients with illnesses that interfere with nutrition and/or elimination. For communicable illnesses, clients needs are considered as well as those of client contacts and health care providers. The planning focus is the entire episode of illness, considering potential teaching needs and home health maintenance. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 265 Psychiatric Theory II (1) In this course, students apply concepts of nursing process and therapeutic communication with clients experiencing mental/emotional disorders that may be seen in a variety of settings: acute or distributive care, psychiatric settings or medical/surgical settings, among them addiction, eating disorders, and personality disorders. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 266 Obstetrics Theory II (1) In this course the student will study the maintenance of women's reproductive health as well as disorders of the reproductive system. Contemporary issues related to contraception, sexually transmitted diseases, infertility, abortion, and violence will be covered. The student will also focus on applying the nursing process with the high-risk client/family during the puerperium. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 267 Pediatrics Theory II (1) The understanding of the concepts of growth and development provides a base for students to learn the skills, in this course, directed towards assessing and promoting health of children and their families. The concepts of the nursing process are expanded to enable the student to document the planned and implemented care that will meet the needs of clients and their families. Children's perceptions and behaviors in relation to health concepts will be included. Pre-requisite: NUR 240 Co-requisite: NUR 260.

NUR 271 Advanced Nursing Process Clinical (2) This course provides an opportunity for the student to consolidate theory and skills developed in previous levels and to implement new Level 4 theory and skills. The student functions in the role of provider of care, in collaboration with members of the health care team, to provide care for hospitalized clients with complex needs. The client is viewed as part of a broader community. The student functions interdependently in the role of manager of care to establish priorities for a group of clients, to delegate and assist others with aspects of nursing care, and to provide for continuity of care, discharge planning and referrals. The student functions interdependently in the role of member within the discipline of nursing to maintain standards, to develop relationships, and to assume accountability for self and others. The student applies the nursing process considering previous illness, to develop and implement a plan of care for a group of clients. Pre-requisite: NUR 240 Co-requisite: Completed and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 272 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 273 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 274 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 275 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experiences in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.
NUR 276 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 277 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experiences in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 278 Ext Adv Clinical (2) This course provides the opportunity for the student to have additional experience in the medical-surgical hospital setting to meet the objectives of the courses in Level 4. Pre-requisite: NUR 271 Co-requisite: Complete and current health form on file. Current CPR certification, malpractice insurance, NUR 260.

NUR 279 Elective Clinical IV (2) This course provides opportunities for the student to have clinical experience to work on personal objectives and/or those beyond the scope of basic preparation. These experiences will allow the student to be supervised in the clinical setting in order to gain additional experiential knowledge, enhance skills learned, and/or validate maintenance of skills. Pre-requisite: Permission of Instructor; Co-requisite: completed and current health form on file. Current CPR certification, malpractice insurance.

NUR 281 Intraop Nursing I (2) This course is designed to introduce the student to the functions of the perioperative nurse as part of the health care team. It includes an introduction to surgical services and aseptic techniques. Topics will include surgical asepsis, scrubbing, gowning and gloving, sterilization processes, surgical instrumentation, equipment, and the role of the scrub nurse and circulating nurse in the care of the surgical patient. Pre-requisite: Currently Licensed RN or Permission of Instructor, NUR 251 Health Assessment (3cr) or equivalent.

NUR 282 Intraop Nursing II (1) This course is designed to introduce the student to the functions of the Scrub Nurse as part of the health care team; it includes the study of preparation of supplies, the roles of the circulator, medico-legal responsibilities including various counting procedures, operating room policies, the myriad sutures and needles employed, and the mechanisms involved with the operating tables and all other surgical equipment. Pre-requisite: NUR 281 or Permission of Instructor.

NUR 283 Pharmacology: Periop Arena (1) This course covers the pharmacological agents used in general, conscious, and local anesthesia. There is an emphasis on the assessment and management of the client undergoing surgery via these agents. Included are the post-anesthesia recovery care and responsibilities of the nurse. Pre-requisite: Currently Licensed RN or Permission of Instructor, NUR 251 Health Assessment (3cr) or equivalent.

NUR 284 Teaching: Periop Arena (1) This course focuses on the learning needs of the client undergoing a surgical procedure. The student will study relevant: principles of teaching and learning; core elements of preoperative teaching plans; evaluation and reinforcement of teaching and learning; preparation for discharge and self care; and community resources and follow up as they pertain to surgical procedures. Pre-requisite: NUR 251 Health Assessment (3cr) or equivalent; NUR 283 or Permission of Instructor.

NUR 291 Role Transition: Capstone Course As a capstone course for the program, this clinical course is designed as a collaborative experience between nursing service and nursing education. It is a reality-based experience in which the student, in conjunction with a registered nurse preceptor, begins to function as a beginning staff nurse. In the roles of provider of care, manager of care, and member within the discipline of nursing, the student incorporates the use of evidenced-based principles of nursing practice. The preceptor acts as a role model, teacher, and supervisor, and determines the pace and extent of assignments based on the student's identified learning outcomes, the experiences available and the student's ability. The student is involved in a collegial review process with the preceptor by maintaining and sharing a daily log receiving formative feedback from which to identify learning needs. The student receives summative feedback prepared by the preceptor at the conclusion of the experience. Pre-requisite: Permission of Instructor. Co-requisite: Completed and current health form on file, current CPR certification, malpractice insurance, NUR 260.

NUR 292 Advanced Specialty Clinical (2) This course provides an opportunity for the student to experience an additional clinical setting to work on objectives beyond the scope of the basic preparation for all students. The students will apply the nursing process and function in the roles of provider of care, manager of care, and member within the discipline of nursing at an advanced level. Specialty clinical areas include, but are not limited to: intensive care nursing, psychiatric nursing, childbearing family nursing, child-rearing family nursing, and gerontological nursing. Pre-requisite: NUR 271 and Permission of Instructor Co-requisite: Completed and current health form on file, Current CPR certification, malpractice insurance.
NUR 295 Psychiatric Clinical: Community
(1) This course provides an opportunity for the student to consolidate theory and skills developed in previous levels and to implement new theory and skills learned in the psychiatric client needs courses in settings not limited to acute care. The student functions in the roles of provider of care and manager of care, in collaboration with members of the health care team within the context of community based settings. The student functions interdependently in the role of member within the discipline of nursing to maintain standards, to develop relationships, and to assume accountability. The student applies the nursing process to perform assessments, select nursing diagnoses, and develop a plan for care. Pre-requisite: NUR 240 Co-requisite: Completed and current health form on file. Current CPR certification, Malpractice insurance. NUR 260.

NUR 296 Obstetrics Clinical: Community
(1) This course provides an opportunity for the student to consolidate theory and skills developed in previous levels and to implement new theory and skills learned in the childbearing family needs courses in settings not limited to acute care. The student functions in the roles of provider of care and manager of care in collaboration with members of the health care team within the context of community based settings. The student functions interdependently in the role of member within the discipline of nursing to maintain standards, to develop relationships, and to assume accountability. The student applies the nursing process to perform assessments, select nursing diagnoses, and develop a plan for care. Pre-requisite: NUR 240 Co-requisite: Completed and current health form on file. Current CPR certification, Malpractice insurance. NUR 260.

NUR 297 Pediatrics Clinical: Community
(1) This course provides an opportunity for the student to consolidate theory and skills developed in previous levels and to implement new theory and skills learned in the child-rearing family needs courses in settings not limited to acute care. The student functions in the roles of provider of care and manager of care in collaboration with members of the health care team within the context of community based settings. The student functions interdependently in the role of member within the discipline of nursing to maintain standards, to develop relationships, and to assume accountability. The student applies the nursing process to perform assessments, select nursing diagnoses, and develop a plan for care. Pre-requisite: NUR 240 Co-requisite: Completed and current health form on file. Current CPR certification, Malpractice insurance. NUR 260.

NUR 298 Geriatrics Clinical: Community
(1) This course provides an opportunity for the student to consolidate theory skills developed in previous levels to implement new theory and skills learned in the gerontological nursing needs course in setting not limited to acute care. The student functions in the roles of provider of care and manager of care in collaboration with members of the health care team within the context of community based settings. The student functions interdependently in the role of member within the discipline of nursing to maintain standards, to develop relationships, and to assume accountability. The student applies the nursing process to perform assessments, select nursing diagnoses, and develop a plan for care. Pre-requisite: NUR 240 Co-requisite: Completed and current health form, current CPR certification, Malpractice insurance. NUR 260.

Nutrition

FOR MORE INFORMATION, CONTACT THE BUSINESS ADMINISTRATION DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W324, (315) 498-2435.

NTR 218 Nutri/Diet Therapy (3) A study of the principles of basic nutrition as it relates to normal growth, development and health. The student will study how nutrient intake can impact body systems and processes. Therapeutic diets for specific disease conditions will also be covered. This course is geared towards the basic and therapeutic knowledge needs of the nursing student. Pre-requisite/Co-requisite: BIO 107 or Permission of Instructor.

Phi les

FOR MORE INFORMATION, CONTACT THE SOCIAL SCIENCE ADMINISTRATION DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A385, (315) 498-2301.

PHI 102 History and Philosophy - Ancient (3) Introduces students to the problems of philosophy through the critical examination of the earliest developments of philosophic thought: the Pre-Socratics, Socrates, Plato, and Aristotle.

PHI 104 History and Philosophy - Modern (3) An introductory course which examines the problems of philosophy as presented by the major philosophical movements of the 17th and 18th centuries. Representative readings will be selected from among the works of Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, Kant, and Hegel.

PHI 105 19th Century Philosophy (3) Primarily concerned with the Post-Kantian trends in the Philosophy of 19th Century Europe. Emphasis will be placed on the most conspicuous figures of this period including Hegel, Schopenhauer, Marx, Mill, Kierkegaard, and Nietzsche.
PHI 106 20th Century Philosophy (3) The student will be introduced to the two major philosophical movements of the 20th Century, Analytic Philosophy and Existentialism, through selected writings of such philosophers as Moore, Russell, Austin, Wittgenstein, Husserl, Heidegger, Sartre, and Camus.

PHI 107 Logic (3) An introduction to modern symbolic logic. The course covers topics from among Aristotelian and modern class logic, informal fallacies, truth tables, proofs of invalidity, propositional logic, and the beginnings of predicate logic. Emphasis will be placed on acquiring the skills of logical technique.

PHI 108 Ethics (3) An introduction to basic problems about the application of the concepts of right, wrong, good and bad to persons and their actions. Topics covered may include: relativism and absolutism, determinism and freedom, and the foundations of moral obligation.

PHI 109 Philosophy of Religion (3) An introductory course examining issues in the traditions of western religious thought, e.g., proofs of the existence of God, the problem of evil, the relationship between religious belief and moral belief, religious experience and knowledge, immortality.

PHI 110 American Philosophy (3) Devoted to the search for characteristically American contributions to philosophical investigations. The course will examine how the issues of the great tradition of philosophy, developed in Europe, in the theories of existence, knowledge, ethics, and politics, have all been addressed by writers such as Emerson, Thoreau, Pierce, James, Dewey, Margaret Fuller, and also by Native-American thinkers.

PHI 206 Philosophy of Law (3) This course concerns the fundamental nature of law, and the relations between law and morality. It covers natural law, imperative, and rule-based theories of the nature of law, and alternative statements of the justice of law. The philosophers covered in the course will include Aristotle, Aquinas, Austen, Hart and Rawls. Prerequisite: one prior course in PHI or Permission of Instructor.

PHI 208 Issues and Problems (3) Detailed study and analysis of some particular problem, area, or philosopher. The subject chosen will vary with each semester; the Philosophy department should be contacted for information as to the subject for a given semester. Prerequisite: one prior course in PHI or Permission of Instructor.

PHI 210 Philosophy of Science (3) Concerned with the nature of scientific theories and the evidence for them, as well as the ways these theories develop and change. Examples of the sorts of problems to be considered are the status of theoretical entities, the problems of induction, simplicity of theories, isomorphism of theories, and the nature of prediction. Examples of theories will be drawn from classical as well as contemporary science. Pre-requisite: one prior course in PHI or Permission of Instructor.

PHI 211 Metaphysics/Epist (3) Concerned with fundamental questions about the nature of reality and our knowledge of it. Emphasis will be placed on acquiring the analytic tools required to examine these areas intelligently, and an attempt will be made to show how uncritical opinions in these areas affect behavior and belief. Pre-requisite: one prior course in PHI or Permission of Instructor.

Photography

FOR MORE INFORMATION, CONTACT THE PHOTOGRAPHY DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W250, (315) 498-2154.

PHO 100 Basic Photography (3) This black and white photography course is an introduction to basic film and camera techniques, photographic aesthetics, and black and white darkroom procedures. Class time is a combination of lecture, demonstration, critique, and hands on darkroom instruction. Regular assignments will be given. Students must have a 35mm adjustable camera. Pre-requisite: PHO 100 or Permission of Instructor.

PHO 105 Advanced Photography (3) A study of advanced black and white photographic techniques and theory. Students will produce a portfolio of images and work through a series of assignments that will increase the students understanding of the photographic medium. Class time will include lecture, demonstration, aesthetics, critique and in class projects. Students must have an adjustable 35mm camera. Pre-requisite: PHO 100 or Permission of Instructor.

PHO 160 Color Photography I (3) This course will cover analog and digital photography including exposure, processing, printing, color theory, color management, and digital output. Aesthetics and communication will be stressed. Class time will include lecture, demonstration, aesthetic critique, and hands-on darkroom instruction. Writing and reading assignments as appropriate to the discipline are part of this course. Prerequisite: PHO 100 or Permission of Instructor.

PHO 175 Special Topics B and W (3) Topics of special interest to broaden and intensify the students ability to use photography as a means of communication and expression. Class time will include lecture, demonstration, aesthetics, critique and hands on darkroom instruction. Students must have a 35mm adjustable camera. Pre-requisite: PHO 100 or Permission of Instructor.
PHO 250 Color Negative Photography (3) This course will acquaint students with skills in color materials handling, from exposure to color negative printing and presentation. Course will cover color theory, applied problems in color photography, processing and printing, color balance and correction. Aesthetics and communicative aspects will be stressed. Regular assignments and a completed portfolio are a requirement of this course. Class time will include lecture, demonstration, aesthetics, critique and hands on darkroom instruction. Students must have a 35mm adjustable camera. Pre-requisite: PHO 150 or Permission of Instructor.

PHO 275 Color Photography II (3) This course provides the student with the opportunity to apply color skills in a photographic genre in both analog and digital media. Topics covered include: the studio, project development and concept management, critical thinking and creative problem solving, medium and large-format cameras, and advanced printing techniques. A completed portfolio reflecting the student's personal aesthetic is a requirement of this course. Class time will include lecture, demonstration, aesthetics, group and individual critique, and hands-on darkroom and studio instruction. Writing and reading assignments as appropriate to the discipline are part of this course. Prerequisite: PHO 160 or Permission of Instructor.

PHO 276 Digital Imaging (3) This studio course covers the basics of digital imaging with an emphasis on Macintosh systems and Adobe Photoshop. To create a broad understanding of digital capabilities and their relationship to traditional photographic image production. Topics covered will include design, image manipulation, scanning, collage, digital cameras, file management and digital output. Software technology will be discussed. The class will explore the creative possibilities of digital technology. Class time will include lecture, demonstration, aesthetics, critique, and in class projects. Pre-requisite: PHO 160 or Permission of Instructor.

PHO 290 History of Photography (3) A survey of the history of photography, with concentration on selected major figures in photography from the nineteenth and twentieth centuries. Class activities will include instructor's presentations, student reports, field trips, guest presentations, and discussions based upon those activities and upon assigned readings in the history of photography.

Physical Education

FOR MORE INFORMATION, CONTACT THE PHYSICAL EDUCATION DEPARTMENT IN HEALTH AND PHYSICAL EDUCATION BLDG., ROOM H202, [315] 498-2282

PEH 100 Lifetime Wellness (1) This course is part of an overview of the wellness promotion effort. Lifetime Wellness will cover the physical dimension of the wellness wheel. Topics covered will encourage knowledge of the three main areas of total fitness: cardiovascular endurance, physical strength training and flexibility. This course will also provide “personal lifestyle assessments” so that a student will be able to determine how diet, nutrition, sedentary behavior and stress reduction will affect one’s life. Various activities that would improve the three main areas of total fitness will be introduced. This course will meet for one hour and 50 minutes.

PEH 101 Beginning Swimming (1) For students who are extremely limited in their ability to handle themselves in water. These students are unable to perform one or more of the following basic beginner skills: 1) Put face in water, hold breath for 10 seconds; 2) Face float, front glide and recover; 3) Back float, back glide and recover; 4) Fearful of deep water; 5) Unable to jump into the water. Students will be tested on the first day of class to be sure they are in the right course.

PEH 103 Intermediate Swimming (1) For students who are able to perform one or more of the following basic swimming skills: 1) Able to jump into deep water, level off, swim 25 yards performing the front crawl; 2) Perform a limited elementary backstroke; 3) Perform a limited standing front dive; 4) Perform a 100-yard swim (4 lengths of the pool), any style, with no time limit. Emphasis is placed on stroke development and technique. Students will be tested on the first day of class to be sure they are in the right course.

PEH 105 American Red Cross Lifeguard Training (2) American Red Cross course that leads to a certification. Deals with the additional skills and knowledge required by individuals to develop effective lifeguard systems at swimming pools and at non-surf, open-water beaches. This course will fulfill the Physical Education aquatics requirement. Pre-requisite: PEH 103 or equivalent skills.

PEH 106 Water Safety Instructors (2) Taught under American Red Cross standards leading to certification. This course prepares candidates as teachers of American Red Cross Water Safety courses. Pre-requisite: Current American Red Cross Advanced Lifesaving Certification and American Red Cross Swimmer’s Skills.
PEH 107 Basic Scuba Diving (1) Taught under National Association of Skin Diving Schools, leading to certification. This course is open to individuals who meet the physical and preliminary swimming test qualifications. Additional fee is required.

PEH 109 Water Aerobics for Women and Men (1) A fun fitness program in the pool. Jumping, jogging, and other calisthenics movements are incorporated in this well-monitored aerobic workout in the shallow end of the pool. Water Aerobics provides as much resistance as lifting weights, but is safer. It has as much cardiovascular benefits aerobicics, but less impact than low impact aerobicics in a gym. Knowing how to swim is not required. This course can be used toward the Physical Education activity requirement. There are no Pre-requisites for this course.

PEH 129 Beginning Tennis (1) Primarily designed for those individuals who have no previous tennis experience. Areas to be covered include equipment, etiquette, rules, stroke fundamentals, and theory.

PEH 136 Aerobic Dance-Women/Men (1) A fun fitness program comprised of a variety of energetic dances that incorporate muscle toning, flexibility, balance, coordination and cardiovascular fitness. Course includes well-monitored workouts, beginning with slow, easy aerobics and working up to more vigorous routines. Meets Physical Education activity requirement.

PEH 139 Ballroom Dancing (1) Designed for the student who has had little or no background in ballroom dancing. It will stress the development of basic rhythms in four or five different dances (fox trot, waltz, cha cha, rhumba, etc.). It will teach the basic steps, patterns, and simple breaks of the dances involved. Finally, it will stress good leading and following techniques so dancing can be an interpretive experience instead of mechanical.

PEH 143 Skiing (1) A course designed to teach all levels of skiing, from beginner to competitive skiing, depending on the ability of the individual. It includes instruction in the mechanics of skiing, exercise, safety, and care of equipment. Additional fee required.

PEH 145 Bowling (1) A comprehensive course covering all the fundamental aspects of the game for the beginner through the experienced. It includes the development, values, basic skills, rules, scoring, etiquette, and equipment. Additional fee required.

PEH 151 Karate (1) This course is designed to teach a basic knowledge of the techniques and philosophy of Karate.

PEH 155 Yoga (1) An introduction of Yogic exercises. Course includes techniques of relaxation, breathing exercises, exercises in bending and stretching, asanas.

PEH 157 Beginning Golf (1) A course for the beginning golfer. Basic fundamentals of the game of golf are stressed, along with various clubs and their uses, essential rules and etiquette, and some historical background on the origin of golf. Practical play at a local golf course is included. Additional fee required.

PEH 163 Basic Weight Training/Lf (1) Designed to give students the necessary techniques and knowledge in the area of weight training so they will be able to pursue intelligently and safely a program of weight training that will fit each student’s specific needs or desires. All areas of weight training will be covered, such as, Olympic lifting, lifting for athletes, physical therapy, body building and physical fitness enthusiasts. Use of free weights and weight machine will be implemented. Additional fee required.

PEH 168 Beginning Volleyball (1) A comprehensive course applying rules to individual skills and team strategy.

**Physics**

For more information, contact the Chemistry and Physical Science Department in Ferrante Hall, Room F353, (315) 498-2432.

PHY 101 Tech Physics I (4) A course in general physics which emphasizes applications of basic principles. It covers fundamentals in mechanics, heat, and wave behavior. Three class hours and two laboratory hours. Co-requisite: MAT 101 or equivalent. Not open to Math-Science students.

PHY 103 General Physics I (4) The first semester of a two-semester, basic, noncalculus General Physics course emphasizing fundamental concepts and principles with a problem solving approach. Topics covered include kinematics and dynamics, Newton’s laws, work and energy, momentum, and rotational motion. A two-hour recitation session allows the opportunity to work on techniques of problem solving. Two class hours, two recitation hours and two laboratory hours. Pre-requisite: MAT 094 or higher. Only four (4) credits in either PHY 103 or PHY 105 may be used toward degree requirements.

PHY 103 Preparatory Workshop: This Preparatory Workshop is designed to help students succeed in the Physics 103 course this semester. This is free to all OCC students enrolled in the PHY 103 course. The Workshop is offered prior to the beginning of the fall, spring, and summer sessions and is intended for anyone needing to review important math requisites for the class. Registration must be done directly through the Chemistry and Physical Science Department. Concurrent enrollment in PHY 103 required.
PHY 103R General Physics I Recitation (0)
Optional recitation section for PHY-103. Provides an opportunity for students to apply the basic laws of mechanics and to develop problem-solving skills. Structured as small group activities, requires completion of worksheets weekly.

PHY 104 Gen Physics II (4) The continuation of PHY 103. Topics covered include vibrations and wave motion, physical and geometrical optics, electricity and magnetism, simple AC and DC circuits. Two class hours, two recitation hours, and two laboratory hours. Pre-requisite: PHY 103 or equivalent.

PHY 105 Physics I (4) The first course of a calculus-level sequence in general physics, primarily for engineering students or for students majoring in the physical sciences. Kinematics and dynamics of a particle, Newton's laws of motion, work and energy, momentum, rotational motion, gravity, fluid mechanics. Three class hours and three laboratory hours. Co-requisite: MAT 161. Only four (4) credits in either PHY 103 or PHY 105 may be used toward degree requirements.


Political Science

FOR MORE INFORMATION, CONTACT THE SOCIAL SCIENCE DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A385, (315) 498-2301.

POS 100 American National Politics (3)
This course will introduce students to American democracy and its founding, contemporary governmental institutions and politics at the national level of government, and provide students with opportunities to participate as citizens in the U.S. political system. Political theories and ideas will be applied in daily discussions of current political affairs. Specific topics that will be analyzed include: political parties, interest groups, media, Federalism, Congress, the presidency, the Supreme Court, and the policy-making that results from their interactions.

POS 102 State/Local Politics (3) In this course, politics, government, and public policy issues at the local level and in New York state are the focus. Students will explore how New York state differs and is similar to other states in the country. Students will examine the interaction between political culture, region, partisanship, and policy in local governments and New York state and explore the prospects for political and institutional reforms.

POS 198 Intro to Political Thought (3) This course introduces students to arguments which seek to define, explain and justify various forms of political organization in the ancient and modern worlds. Students will analyze and discuss various concepts of justice. The dominant philosophical ideas that inform our political thinking will also be examined and critiqued.

POS 201 Comparative Politics (3) Students will learn about each of the world's regions and particular nation-states within each region. Regions and nation-states will be compared with one another and with the USA. Historical and geographical factors will be examined to determine their effects on the contemporary political, economic and social patterns that exist in each of the regions. Further problems and the prospects for political and economic development in each region will also be analyzed. No Pre-requisite.

POS 214 Contemporary Global Issues (3) An interdisciplinary course which explores contemporary global issues. It surveys themes related to social, political, economic, and cultural processes, global linkages/interdependencies, and power relations that connect individuals, communities, groups, states, and regions across the globe. Examines the values and visions emerging from regional perspectives that lead to conflict and/or cooperation in the international system. It contrasts the increasingly complex problems faced by different regions with the growing integration of the global economy. Open to all interested students. Required course for all students pursuing the International Studies concentration.

POS 215 Native-American - U.S. Relations (3) This course will cover three aspects of the relationship between Native-American peoples and the U.S. government. The first includes a sample of Native-American governance and law that existed prior to European settlement, its later influence on the U.S. founding, and its rebirth. The second part of the course will examine U.S. government policies toward Native tribes from 1790 to the present. Treaties, acts and court decisions that reflect these policies will be analyzed. The last third of the course will include a discussion of contemporary issues and conflicts between and among various Native-American tribes and the U.S. government. These contemporary topics will include: land claims, land use, gambling, poverty, religious freedom, social and environmental policies.
POS 216 Student Leadership Development (3)  
This is a course designed to provide a theoretical framework and leadership development for those involved with the co-curricular activities of Student Government. Student leaders and other interested students will learn about the design of government, rule making in government, political participation and the application of these concepts to the practice of student politics. Lecture, discussion and role playing will be integrated to provide a unique educational seminar for student leaders. Pre-requisite: Permission of Instructor.

POS 230 Women and Politics (3) Examines the role of women as a political actor in American politics. The political socialization, participation, and political strategies of women.

POS 260 NYS Environmental Regulation (3)  
This course surveys environmental regulatory management in New York state. Included are historical approaches to regulation, samples of present procedures, and samples of developing trends. The primary focus of the course is on programs of the New York State Department of Environmental Conservation. In addition to NYS DEC programs, the course will introduce the student to other agencies’ regulatory jurisdictions at the federal, state and local levels. Various local approvals will also be considered. The emphasis is on the inter-relationship of programs, not the specific details of the programs themselves.

POS 280 Internship in Politics and Government (3)  
The course provides students the opportunity to apply their knowledge of politics and government in a practical setting. Internships are available in various public offices in the executive/bureaucratic, legislative, or judicial branches of government at the national, state, and local levels. Internships with major political parties may also be available. Students assist in their placement with the help of a faculty coordinator. Course requirements include a minimum of 120 hours of work, maintaining a weekly journal, attendance at four on campus seminars, occasional readings, and an experience-based essay. Two on-site evaluations will also be made by the faculty coordinator. Letter grade will be awarded. No credit given for past work experience. Pre-requisites: Any POS course, and approval by Political Science coordinator and on-site supervisor.

POS 281 Student Leadership Practicum (1)  
A one hour practicum for which student government officers and senators can earn credit for the academic components of their positions. This project is geared towards the responsibilities or each student officer's job description. The faculty instructor and each officer communicate throughout the semester to ensure goals are being met and an essay and/or portfolio is written to illustrate the achievement of their goals. At least 30 hours of student government-related activities and office hours are required of each officer each semester.

POS 290 Senate and Assembly Research (6)  
POS 291 Senate/Assembly Internship (9)  
Senate and Assembly internships available on a competitive basis for outstanding sophomores. Description of Assembly Internship follows: The program begins with a comprehensive week-long orientation to the operation of the State Government, with particular reference to the workings of the Legislature. Interns then receive full-time job assignments in the office of an assemblyman or Assembly committee; the assignments are based on a work plan and a learning contract between a supervisor and an intern; tasks involve constituent work, research on specific legislation, research on the legislative process, and office administration; supervisors are either members of the Assembly, members of their legal or research staffs, or committee staff; job performance is formally evaluated on a regular basis by the supervisors. During the course of the program interns participate in seminars covering such topics as descriptive statistics, evaluating social programs, behavior of legislators, legislative decision-making, and current political issues. Interns receive academic guidance and support, on an individual and group basis, from the permanent program staff, from the Professor in Residence, and from staff within the Assembly (and the State Government) who work with the interns on specific topics and who provide them with a unique blend of academic and practical expertise. The Professor in Residence evaluates the interns at regular intervals and at the end of the program. Pre-requisite: POS 100 or POS 102 or Permission of Instructor.

Public Safety Training Center
FOR MORE INFORMATION, CONTACT THE PUBLIC SAFETY TRAINING CENTER IN THE J. STANLEY COYNE BUILDING, ROOM E100, (315) 498-6046 OR WWW.PSTC.SUNYOCCC.EDU.

PSC 103 Principles of Law for Public Safety Officers (7) An introduction to the law as required of public safety officers. Topics include jurisdiction and responsibilities of law enforcement, criminal and civil adjudicatory process and court structure, constitutional law, penal law, criminal procedure law, juvenile law, civil liability, ancillary NYS statues and vehicle and traffic law.

PSC 105 Public Safety Procedures (8) Public Safety Procedures teaches police officer recruits the various topics, knowledge, actions and procedures required of a sworn police officer. Topics include observation and patrol procedures, reacting to and dealing with bombs and bomb threats, the nature and control of civil disorder, domestic violence, crimes in progress, traffic enforcement procedures, arrest processing and dealing with intoxication (alcohol).
PSC 105L Public Safety Procedures - Officer Proficiency Areas (5) The basic physical/psychomotor skills required of a Public Safety Officer. Complements PSC 105. Students are instructed in and become certified as competent in the areas of arrest techniques, defensive tactics, the use of aerosol and impact devices, riot control formations, firearms, emergency vehicle operation, hazardous materials incidents and critical incident management.

PSC 109 Public Safety Investigation Techniques (4) Public Safety Investigation Techniques teaches police officer recruits the various topics, knowledge, actions and procedures required to investigate a crime. Topics include information development, interviewing techniques, physical evidence, injury and death cases, sex crimes, criminal investigation techniques specific to larceny (specifically, auto theft, burglary, robbery and arson), narcotics and dangerous drugs, case preparation, organized crime and missing or abducted children.

PSC 111 Community Relations for Public Safety Officers (2) This course covers community relations issues and skills for the public safety officer. Topics include community relations, community resources, services to victims and witnesses, crime prevention, crimes against the elderly, ethical awareness issues, cultural diversity, bias related incidents, sexual harassment issues and contemporary police problems.

PSC 120 EMS Certified First Responder (3) An introduction to EMS systems. Topics include: patient assessment, airway management, shock/hemorrhage control, trauma orientation, medical emergencies/OB emergencies and cardiology overview/defibrillation/CPR skills. Credit for this course may not be applied to any degree or certificate requirements. All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information.

PSC 122 EMT Emergency Medical Service (9) This course provides knowledge and practical skill training necessary for attempting completion of the NYS written and practical examinations for Emergency Medical Technician-Basic certification. Topics include: roles and responsibilities of the EMT-I, medical/legal considerations, patient assessment, ventilation, shock and IV skills, trauma skills, emergency childbirth, pediatric emergencies and defibrillation. Pre-requisites: HFA 222 or EMT-B certification and enrolled in the County's EMT program. An additional mandatory clinical/internship experience will be scheduled throughout the course (not during class time). All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information. Pre-requisite(s): Certification as EMT-B.

PSC 124 Emergency Medical Service Technician/Intermediate (6) This course provides knowledge and practical skill training necessary for attempting completion of the NYS written and practical examinations for Emergency Medical Technician-Intermediate certification. Topics include: roles and responsibilities of the EMT-CC, medical/legal considerations, patient assessment, ventilation, shock and IV (intravenous) skills, trauma skills, emergency childbirth, pediatric emergencies, pharmacology, cardiology and CNS (central nervous system) emergencies. An additional mandatory clinical/internship experience will be scheduled throughout the course (not during class time). All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information. Pre-requisite(s): HFA 224 or certification as EMT-B and enrolled in the County's EMT program.

PSC 140 EMS/Certified First Responders Refresher (2) A required refresher course for previously certified NYS First Responders who are seeking recertification. Topics include: patient assessment, airway management, shock/hemorrhage control, trauma orientation, medical emergencies/OB emergencies and cardiology overview/defibrillation/CPR skills. Credit for this course may not be applied to any degree or certificate requirements. Pre-requisite: HFA 220 or prior NYS First Responder Certification. All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information.
PSC 142 EMT Basic Refresher (3) A required refresher course for previously certified Emergency Medical Technician Basic (EMT-B) personnel seeking recertification. Topics include: introduction to emergency medical care, maintenance of the airway, cardiac arrest, and CPR, patient assessment, medical/behavioral emergencies, emergency medical obstetrical care, trauma, infant and child Care, EMT operations. Pre-requisites: HFA 122 or EMT-B certification and enrolled in the County’s EMT program. All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information.

PSC 146 EMS/EMTI/Critical Care/Paramedic Refresher (3) A required refresher course for previously certified NYS Emergency Medical Technicians - Intermediate (EMT-I), Critical Care (EMT-CC), or Paramedic (P) who are seeking recertification. Topics include: airway management, pathophysiology and management of shock anaphylaxis, MAST (Military Anti-Shock Trousers) IV skills, trauma assessment and kinematics, treatment of chest and abdominal injuries. Treatment of burns, pathophysiology and management of chronic and acute respiratory disorders, defibrillation, HAZMAT, care of the pediatric patient and OB/GYN emergencies including emergency childbirth. All EMS courses are offered in conjunction with the Onondaga County EMS Bureau. Contact the EMS Bureau for registration information. Pre-requisite(s): HFA 124 or 126 or certification as EMT-I, Critical Care or Paramedic.

Psychology

FOR MORE INFORMATION, CONTACT THE SOCIAL SCIENCE DEPARTMENT IN THE ACADEMIC BUILDING, ROOM A385, (315) 498-2301.

PSY 103 General Psychology (3) Designed to give the student an introduction to the concepts required for the study of perception, conditioning, learning, intelligence, motivations, emotions, and personality. The interaction of heredity and environment is also stressed. Pre-requisite to all other psychology courses.

PSY 204 Child Psychology (3) An introduction to the scientific study of the developing child. The age span covered ranges from the prenatal period up to puberty. Topics include age relevant studies of motor, cognitive, linguistic, social and personality growth. Pre-requisite: PSY 103.

PSY 205 Social Psychology (3) An introduction to the area of human social interaction from the perspective of how man affects and is affected by social phenomena. Social factors in the development of personality and motivation, attitudes and attitude change, interpersonal and group processes, and the application of social psychology to contemporary issues will be emphasized. Students will be expected to critically evaluate the explanatory models used to describe, explain, and predict social behavior. Pre-requisite: PSY 103.

PSY 206 Human Growth and Development (3) Human growth and psychological development of the individual from infancy through senescence. Attention is given to the patterns of change occurring during each of the life stages considering physiological, psychological, genetic and culture forces affecting human development. Pre-requisite: PSY 103.

PSY 207 Adolescent Psychology (3) All of the important aspects of the lives of adolescents are studied from a theoretical and research viewpoint. Topics discussed include the following: development of the self-concept, sexual maturation, morality, mental growth, vocational choices, love and affection, anger, fear, parents, peer relationships, home and family, marriage, the drug culture, etc. Pre-requisite: PSY 103.

PSY 208 Personality Theories (3) A comparative analysis of various theories of personality in terms of the issues separating them and an examination of the role of research in resolving these issues. The course covers representative theories of personality from the areas of psychoanalytic, cognitive, phenomenological, and humanistic psychology. Analyses of the issues generated by these theories, and their explanatory adequacy will also be considered. Pre-requisite: PSY 103.

PSY 209 Psychology of Adulthood (3) Introduces the student to the current issues, questions, and research in the field of adult development. The course will address how personality development is affected by various adult-life crises or life passages such as: forming intimate relationships, parenthood, job changes, mid-life crisis, retirement, aging, and death. Pre-requisite: PSY 103.

PSY 210 Abnormal Psychology (3) Deals with the important aspects of “abnormal psychology,” both from a descriptive as well as a theoretical viewpoint. In addition to noting the various symptoms and characteristics of psychological disorders, an emphasis will be placed on explaining the possible causes of such disorders and their possible methods of treatment. Pre-requisite: PSY 103.

PSY 211 Psychology of Leadership and Work (3) Designed to study the interplay of humans and organizations. It is concerned with many of the major effects on individuals, both management and workers, by our rapidly changing economy, automation, information technology, and social change. The organization is viewed as a system and this course focuses on the way workers, management, owners, and the public reach a balance in their respective objectives within that system. Pre-requisite: PSY 103.

Need more information? Check our Web site: www.sunyocc.edu
PSY 212 Psychology of Women (3) A study of the psychology of women from an historical and contemporary perspective. The main focus of the course is on the current revisions and expansion of research on sex roles (sex differences and similarities). Such topics as, for example, sex-role stereotypes, the issue of fear of success in women (and men), and androgyny as an alternative to masculinity or femininity are considered in light of the relevant literature. Pre-requisite: PSY 103.

PSY 214 Educational Psychology (3) An investigation into the ways in which psychological knowledge can be applied to the processes of bringing about changes in behavior, i.e., teaching, and learning. The educational implications of psychological theory and research will be applied to such areas as: the processes involved in learning, remembering, thinking, solving problems, motivation, and creativity. In considering these areas the focus will be on understanding learning, the differentiation among learners and learning environments, so that appropriate strategies may be created to enable students to better define themselves as learners. Pre-requisite: PSY 103.

PSY 215 Mind and Body (3) An introduction into the interrelationships between mind and body, exploring the physiological correlates of behavior as well as psychosomatic illness. Students will explore and critically evaluate the theories and research in physiological and their implications. Pre-requisite: PSY 103.

PSY 216 Psychology and Law (3) An exploration of the issues and dilemmas created by the interaction between psychology and the law. Current psychological research and theory will be applied to evaluating the uses and abuses of the insanity defense; understanding, predicting and regulating violent behavior; the role of the psychologist as expert witness in civil and criminal cases; the application of psychological research to jury selection, trial techniques and the evaluation of evidence. Pre-requisite: PSY 103.

PSY 217 Psychology of Men (3) A survey of the experience of being male from the biological, intrapsychic and social perspectives of psychology. The course content is meant both to acquaint the student with current thinking and understanding in the area and to help the student understand their life or the life of a significant male in a more complete and conscious way. Topics to be studied are: father-son relationships, mother-son relationships, fathering, relationships with men, relationships with women, husbanding, emotional expressiveness, aggression and war, gender differences, men's movement, feminism, work, solitude, sports and rites of passage. Pre-requisite: PSY 103.

PSY 218 Psychology of Disabilities (3) This course will address issues faced by individuals with physical disabilities, whether congenital, hereditary or traumatic in nature. Included is a discussion of the Americans with Disabilities Act, 1990, and its effects on the self-image of the disabled. The course will include definitions of disabilities, cultural attitudes about the disabled, and reactions of family members to the disabilities. Information about support services will also be given. Pre-requisite: PSY 103.

PSY 219 Positive Psychology (3) Positive Psychology is the scientific study of ordinary human strengths and virtues. We will examine human behavior that is effective, valuable, and contributes positively to human development. We will study how humans live lives of dignity and purpose and will include such topics as subjective well being, peak performance, wellness, interventions for enhanced well being, religion and spirituality and work, community, and well being. This course takes a holistic and general systems theory perspective. Prerequisite: PSY 103.

PSY 298 Selected Topics: Psychology (3) Subjects and material will vary with faculty interest and student demand. Credit hours and general course content will be established beforehand by the faculty member offering the course in consultation with other members of the department.

Physical Therapist Assistant
FOR MORE INFORMATION, CONTACT THE PHYSICAL THERAPIST ASSISTANT DEPARTMENT IN FERRANTE HALL, ROOM F267, (315) 498-2458.

PTA 101 Intro to Rehabilitation (3) The history of the profession of physical therapy and the American Physical Therapy Association is explored. The student is introduced to procedures used in physical therapy, settings where P.T. is practiced, and the physical therapist assistant's role as part of the rehabilitation team. Ethical and legal considerations in physical therapy are also introduced. Communication skills are developed including effective interpersonal communication, oral and written reports and medical terminology. Vital signs, dressings, aseptic techniques and various emergency procedures pertinent to the practice of physical therapy will be learned. The student is required to become CPR certified on an independent basis. Pre-requisite: Acceptance into PTA program or Permission of Instructor. Co-requisites: PTA 102, 102L, 103 or Permission of Instructor.
PTA 102 Physical Therapy Procedures I (2)
The theory and practice of physical therapy procedures is begun including patient positioning and handling techniques, skin care, heat, cold, hydrotherapy treatments and massage. Ambulation with assistive devices, transfers, activities of daily-living skills and wheelchair prescription and use are taught. The theory, effects, contraindications and safety precautions of these treatments are learned. Pre-requisite: Acceptance into PTA program or Permission of Instructor Co-requisites: PTA 101, 102L, 103, or Permission of Instructor.

PTA 102L Physical Therapy Procedures I Lab (2) Lab Skills of PTA 102 are practiced. Students will master entry-level skills on patient positioning and handling techniques, heat, cold, and hydrotherapy treatments, and massage. Students will become proficient with ambulation using assistive devices and patient transfer techniques. Activities of daily living skills, use of adaptive equipment, wheelchair prescription and use will also be learned. Pre-requisite: Acceptance into PTA program or Permission of Instructor. Co-requisite: PTA 101, 102, 103, or Permission of Instructor.

PTA 103 Clinical Training I (1) An introduction to the physical therapy department of a clinical facility. Assignments are designed to allow students to observe, assist and acquire skills in application of all procedures studied in PTA 101 and 102. Pre-requisite: Acceptance into PTA program or Permission of Instructor Co-requisite: PTA 101, 102, 102Lab or Permission of Instructor.

PTA 104 Physical Therapy Procedures II (2)
Prepresents the principles, theory, effects and contraindications of forms of electrotherapy, deep heat modalities, ultraviolet and traction. Mechanisms of injury and the healing process are taught. Theory and principles of range of motion and therapeutic exercise are introduced. Theory of biofeedback and stretching is discussed. Basic assessment and treatment of musculo-skeletal injuries are introduced and discussed. Pre-requisite: PTA 101, 102, 102L, 103 or Permission of Instructor Co-requisite: PTA 104L, 105, 106 or Permission of Instructor.

PTA 104L Physical Therapy Procedures II Lab (3) Students master entry-level skills of application of various forms of electrotherapy, deep heat modalities, ultraviolet and traction. Students become proficient in selecting and executing range of motion and therapeutic exercises. Students are familiar with practical application of stretching of the limbs. Pre-requisite: PTA 101, 102, 102 Lab, 103 or Permission of Instructor. Co-requisite: PTA 104, 105, 106 or Permission of Instructor.

PTA 105 Functional Anatomy I/Lab (3) Application of principles of anatomy in the study of human motion. Emphasizes the positioning and procedures for muscle testing, and goniometry of the lower extremities and the physiology of muscle contraction. The origins, insertions, actions, innervation and palpations of various muscles of the lower extremities will be learned, in addition to landmarks of the skeletal system. Normal and abnormal posture and gait are studied. Pre-requisite: PTA 101, 102, 102L, 103 or Permission of Instructor. Co-requisite: PTA 104, 104L, 106 or Permission of Instructor.

PTA 106 Clinical Training II (3) In the clinical setting, the student applies newly acquired concepts and skills from PTA 104 and 105 and refines skills learned in PTA 102 and 102L. Pre-requisite: PTA 101, 102, 102L, 103 or Permission of Instructor. Co-requisite: PTA 104, 104L, 105 or Permission of Instructor.

PTA 201 Physical Therapy Procedures III/Lab (4) Studies the pathology, signs, symptoms, psychosocial factors and P.T. management of disabilities related to strokes, spinal cord injury, amputation, pediatric and developmental disabilities, collagen diseases and orthopedic procedures. Pre-requisites: PTA 104, 104L, 105, 106 or Permission of Instructor. Co-requisite: PTA 207 or Permission of Instructor.

PTA 202 Physical Therapy Procedures IV (3) Study additional disabilities that may require P.T. interventions as in PTA 201. These include the pathology, signs, symptoms, psychosocial factors and P.T. management of burns, neuromuscular diseases, traumatic head injury, diabetes, cancer, cardiopulmonary disease, visual and auditory impairments, and obstetrics. Pre-requisite: PTA 201, 207 or Permission of Instructor. Co-requisite: PTA 204 or Permission of Instructor.

PTA 204 Seminar (3) Will study ergonomics and functional capacity evaluations. Death, dying, and the grieving process will be learned online. Administrative topics including reimbursement, quality assurance, budgeting, communications, life-long learning and other PT practice issues will be discussed. A capstone review on all PTA topics will be presented, and students will take a mock exam to prepare for the national PTA licensing exam required after graduation. An in-depth paper and oral report on a PT-related topic of interest will be required. Pre-requisite: PTA 201, 207 or Permission of Instructor. Co-requisite: PTA 203 or Permission of Instructor.

PTA 205 Advanced Clinical Training (6) Under direct supervision of a registered Physical Therapist the student will be able to synthesize acquired concepts and skills from the previous levels of clinical training. The clinical experience follows the completion of all required PT courses. Pre-requisite: PTA 203, 204, or Permission of Instructor.
PTA 207 Functional Anatomy II/Lab (3) A continuation of PTA 105, this course includes bony landmarks, origins, insertions, actions, innervation and palpations of the muscles of the trunk, upper extremity, trunk, head and neck. Goniometry and muscle testing will be learned on the upper extremity. Pre-requisite: PTA 104, 104L, 105, 106 Co-requisite: PTA 201 or Permission of Instructor.

Rec 201 Team Sports: Teaching and Officiating (2) An in-depth study of individual skills, rules, strategy, and officiating in each of the following team sports: soccer, basketball, volleyball, and softball. Recreation majors or Permission of Instructor.

REC 204 Outdoor Recreation and Nature Studies (4) A study of the scope and history of the outdoor recreation movement. Topics include techniques for camp counseling, recreation programming, and outdoor recreation practices. Students are required to attend two camp outings during the semester which provide practical camping and outdoor recreation experiences. Recreation majors or Permission of Instructor.

REC 207 Expressive Arts in Recreation (3) This course is a study of the basic fundamentals of music and dance theory relative to recreational programming. It is designed to give the student the basic skills and working knowledge of creating, organizing, and implementing programs which incorporate music and dance in a variety of recreation settings. Recreation majors or Permission of Instructor.

REC 253 Recreation Programming: Issues in Diversity and Inclusion (3) In preparing for recreation programming in a variety of environments with diverse populations, students will examine diversity in recreation programming which considers recognition and respect for differences in race, ethnicity, class, gender, and sexual orientation. The characteristics and abilities of people with disabilities will be analyzed and experienced through community involvement. Recreation majors or Permission of Instructor.

Reading and Study Skills


RDG 087 Intermediate Reading (0) Designed to meet the needs of students who wish to strengthen their reading and study skills. Emphasis will be placed on vocabulary building, structural analysis; spelling improvement; such comprehension skills as paraphrasing and summarizing; and improving the study skills of time management, organizational techniques and listening. Pre-requisite: RDG 079 or on the basis of Placement Test Score. Co-requisite: RDG 087L.
RDG 093 College Preparation Reading (0)
Designed to meet the needs of students who wish to strengthen their reading and study skills to the level necessary to handle the demands of college-level work. Emphasis will be placed on such comprehension skills as organizational patterns, outlining, overview outlining in texts, marking texts and summarizing; study skills such as listening and note taking, time management and library use; and vocabulary building, including dealing with technical terms in content area courses. Pre-requisite: RDG 087 or Placement Test. Co-requisite: RDG 093L.

RDG 099A Reading Tutorial (0)

RDG 087L Intermediate Reading Skills - Lab (0)

RDG 093L Reading Preparation for College - Lab (0)

RDG 130 Reading/Study Skills (1) Designed to improve basic skills necessary to college success. Emphasis will be on effective methods of study and reading comprehension.

RDG 134 Listen/Notetaking (1) Course stresses improvement in both listening and notetaking during lectures. Emphasis is on listening for main ideas and for supporting details. The Cornell Method of notetaking is stressed and students are encouraged to apply the method to actual lecture courses. Skills analysis will provide direction for improvement.

RDG 136 Vocabulary (2) Designed to provide the student with several methods for dealing with unfamiliar words. Meaning in context, structural analysis, history of language, dictionary and thesaurus skills will be studied. Students will work to improve their choice of words in writing and to strengthen their recognition vocabulary when reading. Pre-requisite: Placement Test/RDG 093.

RDG 140 Health Science Reading/Study (3) Designed specifically for health science majors for the purpose of developing learning strategies and vocabulary in the science content areas. The learning strategies component will focus on improving note-taking in science classes, reading science textbooks, active strategies for integrating class materials for test preparation, and test-taking strategies for lecture and lab exams. The vocabulary component will focus on developing knowledge of Greek and Latin roots and affixes, as well as building science knowledge and vocabulary from current health readings. Pre-requisite: Placement Test/RDG 093.

RDG 142 Technical Reading/Study Skills (3) This course is designed to help students manage the demands of technology courses. Emphasis is on breaking down technological reading materials with focus on reading for information from technical manuals and documents. Understanding technical jargon and acronyms will also be addressed. Effective notetaking, active study strategies combined with higher-level thinking skills to prepare for exams and efficient time management will also be incorporated as a means to improve student success in technical curricula. Special emphasis will be placed on problem-based learning using collaborative teams.

RDG 153 College Learning/Study (3) This course is designed to help students become more efficient learners through practice of higher-level thinking skills. Emphasis is on taking complete, accurate notes; effective use of class notes in study; reading and marking text assignments; strategies for taking essay and objective exams; studying beyond the literal level; and techniques for dealing with technical terms and unknown vocabulary. Pre-requisite: Placement Test/RDG 093.

RDG 154 Critical Reading (3) Emphasis is on critical reading and thinking skills, vocabulary development and reading flexibility. Students will analyze and evaluate material beyond the literal level. Critical thinking skills will also be applied to the mastery of content area coursework. Pre-requisite: RDG 153 or Permission of Instructor.

Respiratory Care

FOR MORE INFORMATION, CONTACT THE RESPIRATORY CARE DEPARTMENT IN FERRANTE HALL, ROOM F267, (315) 498-2458.

RET 101 Medical Physics (1) Addresses the physical principles which apply to respiratory therapy equipment and procedures, including gas properties and laws, heat and humidity, and physical principles which apply to ventilation and external respiration. Pre-requisite: RET or Permission of Instructor.

RET 102 Mechanics of Disease (2) Introductory pathology, including medical terminology, general principles of disease, and overview of common diseases encountered in the hospitalized patient. Pre-requisite: RET or Permission of Instructor.

RET 103 Respiratory Physiology (3) Basic function of the respiratory system, including thoracic, pulmonary, and cardiovascular anatomy, mechanics of ventilation, pulmonary perfusion, gas exchange and transport, control of respiration, and introduction to acid/base interpretation. Pre-requisite: RET or Permission of Instructor.

RET 105 Respiratory Practice I (2) Basic respiratory care procedures, including patient assessment, gas delivery, bronchial hygiene therapy, and respiratory pharmacology. Complements the clinical sequence. Pre-requisite: Matriculated Respiratory Care student or Permission of Instructor.
RET 105L Respiratory Practice I Lab (1) This course provides laboratory practice in basic respiratory care procedures, including patient assessment, oxygen and aerosol delivery, bronchial hygiene and isolation techniques. Two laboratory hours per week. Co-requisite: RET 105.

RET 118 Fresh Clinical I (3) Supervised clinical practice in basic patient care techniques in the hospital setting. Pre-requisite/Co-requisite: All RET courses 105 and below.

RET 125 Respiratory Practice II (1) Basic care of airway, ECG interpretation, arterial blood gas interpretation, chest radiograph interpretation and pulmonary function testing. Pre-requisite: All RET courses numbered 118 and below.

RET 125L Respiratory Practice II Lab (1) This clinical course allows the student hospital practice in basic intensive care techniques, including ventilator management, airway care, arterial blood sampling and equipment maintenance. Pre-requisite: All RET courses numbered 126 and below.

RET 126 Mechanical Ventilation (2) Introduction to mechanical ventilation, emphasizing operation and application of common ventilators. Lecture and laboratory. Pre-requisite: All RET courses 118 and below.

RET 126L Mechanical Ventilation Lab (1) This course provides laboratory practice for setting up many different types of mechanical ventilators. Pre-requisite: All RET courses numbered 118 and below. Co-requisite: RET 126.

RET 128 Fresh Clinical II (4) Supervised laboratory and hospital practice in basic intensive care techniques, including ventilator management, airway care, arterial blood sampling, basic spirometry testing, and equipment maintenance. Pre-requisite/Co-requisite: All RET courses 126 and below. Summer semester.

RET 130 Neonatal Respiratory Care (1) This course examines the gestational development and evaluation of the fetus, cardiopulmonary transition at birth, evaluation of the newborn, oxygen administration, mechanical ventilation, bronchial hygiene, airway care and cardiopulmonary resuscitation of the newborn. Pre-requisite: RET 125, 126, 128, Permission of Instructor.

RET 134 Respiratory Disease (3) Etiology, pathophysiology, clinical and laboratory presentation, and usual treatment of cardio-respiratory disorders in adults, children, and newborns. Pre-requisite: RET 128, Permission of Instructor.

RET 139 Fresh Clinical III (4) This clinical course gives the respiratory care student extensive experience working in the adult intensive care unit. Basic respiratory care, ventilator monitoring, blood gas analysis and airway care. Advanced concepts in cardiopulmonary monitoring are covered. Pre-requisite: RET 128 and Below, Permission of Instructor.

RET 142 Respiratory Home Care (1) Addresses the care of both the pediatric and adult respiratory patient in the home including oxygen administration, apnea monitoring, sleep apnea therapy, adjunctive modalities, mechanical ventilation, psychosocial issues, discharge planning and pulmonary rehabilitation techniques. Pre-requisite: RET 125, 126, 128 and Permission of Instructor.

RET 144 Applied Physiology (1) This course covers the application of respiratory physiology to the clinical setting, inclusive of gas transport, gas exchange, tissue oxygenation, and ventilation/perfusion abnormalities. Basic arterial blood gas interpretation, mathematical calculations, and clinical case studies are also covered. Pre-requisite: RET 103, Permission of Instructor.

RET 145 Respiratory Care Seminar I (1) Designed to provide a dynamic forum for lecture presentation and discussion of current topics of special interest to the future respiratory care practitioner. Topics will be selected from areas of interest that are not included in more traditional core courses. These topics include, but are not limited to: universal health care/socialized medicine; health care reimbursement; health care proxy and do not resuscitate policies; basic supervisory/management skills; communication skills; medical ethics; professional liability; and coping with job burn out. Pre-requisite: RET 128 and Below, Permission of Instructor.

RET 190 Cooperative Education in Respiratory Care (3) This course is designed to provide work experience directly related to the student's intended field of study and offers the student the opportunity to view the Respiratory Care profession through actual work experience in a respiratory care department. Emphasis is on hands-on practical equipment experience in non-patient contact situations. Course includes a combination of 120 hours of respiratory care work and seminars. Seminar topics include professional ethics, basics in medical terminology, and CPR training. Cannot be used to meet graduation requirements in the RET program. Pre-requisite: Approval by RET department.
RET 205 Cardiovascular Physiology and Disease (3) Anatomy and function of the cardiovascular system, cardiovascular disease, assessment and diagnostic techniques, and care of the patient with cardiovascular disorders. Pre-requisite: All courses RET 139 and below or Permission of Instructor.

RET 206 Acid-Base Physiology (3) Regulation of acid-base balance in the body, with emphasis on the carbon dioxide/bicarbonate system. Interpretation of acid-base disorders, fluid and electrolyte balance, and their interrelationship. Pre-requisite: RET 103, Permission of Instructor.

RET 207 Diagnostic Techniques (3) Theory, significance, and methodology of various diagnostic studies used in the assessment of pulmonary function. Techniques discussed include basic spirometry, flow/volume tests, lung volume determination, diffusion capacity, tests of small airways disease, exercise testing, and bronchoprovocation. The use of calorimetry, pneumograms, and evaluation of sleep disorders are also included. Pre-requisite: RET 103, RET 125 or Permission of Instructor.

RET 211 Respiratory Care Seminar II (3) This course is designed to assist the student in developing techniques to diagnose and treat patients with cardiopulmonary disease utilizing case studies and computer simulations. Pre-requisite: RET 145, Co-requisite or Pre-requisites: RET 205, RET 206, RET 213, RET 214 or Permission of Department.

RET 213 Sophomore Clinical I (3) This clinical course gives the Respiratory Care student clinical experience in caring for pediatric patients, neonatal patients and adult patients with chronic respiratory disease. The course also provides observation rotations in various clinical settings such as physician rounds, pulmonary rehabilitation and sleep lab. Pre-requisite: RET 139 or Permission of Department. Pre/C0-requisite: RET 205. Minimum enrollment required.

RET 214 Sophomore Clinical II (3) Clinical application of hemodynamic and other cardiopulmonary monitoring, practice in the methodology of pulmonary function testing and care of the respiratory patient at home. Observation rotations include home care of the respiratory patient, cardiac catheterization, and echocardiography. Pre-requisite or Co-requisite: RET 205, RET 206, RET 207, RET 213 or Permission of Department. Minimum enrollment required.

Science—Physical Science
FOR MORE INFORMATION, CONTACT THE PHYSICAL SCIENCE DEPARTMENT IN FERRANTE HALL, ROOM F353, (315) 498-2432.

SCI 100 Meteorology (3) A basic course in descriptive meteorology with application of basic principles of weather phenomena. Includes climate and major weather patterns of the earth, the general circulation of the atmosphere, the basic physical laws of weather science, weather forecasting, and uses of weather. Satisfies the science elective requirement of the Math-Science curriculum and also satisfies the science requirement of those curricula which require science. Three class hours or equivalent per week.

SCI 100L Meteorology Lab (1) Basic principles of weather and the dynamic characteristics of the atmosphere will be investigated through the study of instruments and investigation of exercises in the laboratory. Practical weather forecasting will be examined and field trips to local stations will be expected. Intended for those who wish to deepen their understanding of meteorology and/or who have a laboratory science requirement to satisfy. One three-hour session per week. Pre-requisite: MAT 079 or higher Pre-requisite/Co-requisite: SCI 100.

SCI 101 Physical Science I (4) A physical science course for non-science majors not open to Math-Science majors. Most descriptions of physical laws and relationships are qualitative. Everyday experiences are analyzed and described in terms of these laws and relationships. Topics covered include: scientific method, motion, energy, momentum, heat, wave motion, electricity and light. Three class hours and two laboratory hours. Not open to students who have completed H.S. Physics. Pre-requisite: Elementary Algebra.

SCI 102 Physical Science II (4) The second semester of a physical science course for non-science majors. The approach is qualitative-similar to SCI 101. Topics covered are projectile and satellite motion, atomic nature of matter, states of matter, heat transfer and changes of state, wave motion and sound, simple electrical circuits, magnetism, light and atomic physics. Three class hours and two laboratory hours each week. Pre-requisite: SCI 101.

SCI 103 Intro Astronomy (3) The Universe: the solar system, stars, galaxies, and cosmology are examined in the light of the continuing discoveries of modern astronomy in the space age. Satisfies the science elective requirement of the Math-Science curriculum and also satisfies the science requirement of those curricula which require science. Three class hours per week.
SGT 101 Intro to Surgical Technology (3) A course to introduce the student to the field of surgical technology. Includes the study of medical legal aspects, ethical conduct, hospital policies, and preparations for the care of the surgical patient. Includes clinical orientation sessions in the operating room setting at various hospitals in the community. Pre-requisite: SGT matriculation. Co-requisite: SGT 102, 103, 103L.

SGT 102 Surgical Pharmacology (1) Studies dosage equivalents and terminology, proper procedures for handling intra-operative drugs, principles of drug usage, and the principles and effects of anesthesia administration. Pre-requisite: SGT matriculation. Co-requisite: SGT 101, 103, 103L.

SGT 103 Principles of Surgical Technology (3) An introduction to surgical services and aseptic techniques. Topics will include: instrumentation, suture types and technique, scrubbing and preparing the sterile field, types of instruments, uses of other operating room equipment. Pre-requisite: SGT matriculation. Co-requisite: SGT 101, 102, 103L.

SGT 103L Principles of Surgical Technology Lab (2) A lab to complement SGT 103, Principles of Surgical Technology. The student will be introduced to the techniques and equipment that are an integral part of his training as a surgical technologist. Pre-requisite: SGT matriculation. Co-requisite: SGT 101, 102, 103L.

SGT 105 Clinical Practice I (5) Clinical application of basic surgical technology procedures. To include the preparation of equipment and the practice of passing instruments and sutures during actual surgical procedures. Pre-requisite: SGT 101, 102, 103, 103L, BIO 107.

SGT 111 Surgical Procedures (5) A course detailing surgical procedures and the part the surgical technologist plays. Common surgical procedures are explained for each major body system. The student learns how to assist the physician during each specific procedure. Pre-requisite: SGT 101, 103, 103L, 102, BIO 107.


Sociology

SOC 103 Intro Sociology (3) This course is an introduction to the broad range of topics encompassed in the “science of society.” Students will be exposed to key sociological theories, as well as major sociological concepts such as culture, social structure, socialization, deviance, social institutions, and social inequalities such as social class, race/ethnicity, and gender. Examples will be drawn from various cultures within the United States and will also be drawn from other contemporary societies. No Prerequisite.

SOC 183 Popular Culture (3) This course is an analysis of popular culture. It will examine the role of popular culture in society. It will further examine how the nature of popular culture is shaped by mass media organizations and how popular culture, in turn, shapes the mass media, our perceptions of ourselves, and society. The course will explore various mediums of popular culture: print media, radio, television, films, advertising, and/or popular music. The student will use critical analysis to explore these mediums. No Pre-requisite.

SOC 203 Sociology of Sex Roles (3) A sociological analysis of male and female sex roles in contemporary American society. The development of sex roles within the individual and within the society will be explored. This course discusses the impact sex roles have on the lives of men and women in the areas of socialization, education, work, marriage, families, and human relationships. Sexual prejudices and sexual discrimination will be explored, including their impact on both the individuals and society. The ramifications of changes in sex-role definitions for both the individual and society will also be discussed. No Prerequisite.

SOC 204 Social Problems (3) A study of selected social problems which could include poverty, race relations, violence, drug addiction, delinquency, crime, urbanization, or others. Emphasis on understanding the basic sociological concepts and theories as applied to modern social problems. Pre-requisite: SOC 103 or Permission of Instructor.

SOC 207 Sociology of Deviance Just as “beauty is in the eye of the beholder,” so deviance depends on the viewpoint of the observer. This course is designed to give the student a general perspective on the “other side” of human behavior by provid-
topics covered include values and ideologies that created global interdependence and inequality. and foreign peoples, as well as historical events shaped our ideas about international relationships and discusses several issues that affect it. Also introduce students to the nature of this system states that divide the globe. This course seeks to a system of stratification different from the nation by its own political and economic structure, and examined the world as a global system characterized by its own political and economic structure, and as social processes, focusing on the effect these processes have on the lives of individuals and on society. The course will investigate social roles and occupations related to death and dying, death rituals, how concepts of death affect the lives of individuals and of society, and the problem areas related to death and dying. The particular emphasis will be on death as a social phenomenon, shaping and being shaped by society. Prerequisite: SOC 103 or Permission of Instructor.

**SOC 209 Death and Dying (3)** An interdisciplinary investigation of death and dying, emphasizing the sociological perspective. Dying and death are studied as social processes, focusing on the effect these processes have on the lives of individuals and on society. The course will investigate social roles and occupations related to death and dying, death rituals, how concepts of death affect the lives of individuals and of society, and the problem areas related to death and dying. The particular emphasis will be on death as a social phenomenon, shaping and being shaped by society. Prerequisite: SOC 103 or Permission of Instructor.

**SOC 211 Race and Ethnicity (3)** The course provides macro-sociological and micro-sociological theories for understanding the social contexts of racial/ethnic relations in contemporary societies. The course will also examine prejudice, discrimination, ethnocentrism, racism, segregation, ethnolinguism, and other social factors that influence the participation of racial/ethnic minority groups in American institutions. While the course will focus on the American society, it will not preclude comparison with other contemporary multi-racial/ethnic societies. Prerequisite: SOC 103 or Permission of Instructor.

**SOC 213 International Development and Change (3)** Recent sociological analysis has examined the world as a global system characterized by its own political and economic structure, and a system of stratification different from the nation states that divide the globe. This course seeks to introduce students to the nature of this system and discusses several issues that affect it. Also examines the belief systems that have traditionally shaped our ideas about international relationships and foreign peoples, as well as historical events that created global interdependence and inequality. Topics covered include values and ideologies shaping American perceptions of the global system, historical background of the global system, global stratification and inequalities, and value choices for building a new global system. Prerequisite: SOC 103 or Permission of Instructor.

**SOC 214 Contemporary Global Issues** An interdisciplinary course which explores contemporary global issues. It surveys themes related to social, political, economic, and cultural processes, global linkages/interdependencies, and power relations that connect individuals, communities, groups, states, and regions across the globe. Examines the values and visions emerging from regional perspectives that lead to conflict and/or cooperation in the international system. It contrasts the increasingly complex problems faced by different regions with the growing integration of the global economy. Open to all interested students. Required course for all students pursuing the International Studies Concentration. Prerequisite: SOC 103 or Permission of Instructor.

**SOC 215 Sports in Society (3)** This course will explore the structural and cultural relationship of sport to society, paying particular attention to the issues of race, ethnicity, gender, social class, age, economics and politics as they relate to sport. How sport parallels other social institutions such as the media, family, and schools (particularly college athletics) will also be explored. An all-encompassing objective will be to examine how sport is a microcosm of society. By looking at sport we can also look at and learn about society.

**SOC 298 Selected Topics: Sociology (3)** Subjects and material will vary with faculty interest and student demand. Credit hours and general course content will be established beforehand by the faculty member offering the course in consultation with other members of the department.

### Spanish

See MODERN LANGUAGES - SPANISH

### Teacher Education

For more information, contact the Human Services and Teacher Education Department in the Academic Building, Room A181, (315) 498-2341.

**EDU 155 Development/Care of Infants and Toddlers (3)** An overview of methods of fostering the development of infants and toddlers emphasizing the caregiver role in planning environment and interacting with children. In order to complete some assignments, students must have a child under three years of age available for observation and interaction.

**EDU 158 Infant/Toddler Development (3)** This course examines all domains of infant and toddler development including: prenatal development, language development, cognitive development, motor development, and social/emotional development. Atypical development and the importance of early intervention will also be presented and discussed. In addition, the observation and care-giving skills necessary for a quality infant and toddler program will be presented. In order to complete assignments, students must have a child available to observe. Prerequisite: English and Reading placement at college level.
EDU 170 Development of Children from 5 - 12 (3) A specialized course in child development which studies the emotional, social, cognitive and physical development of the child from five to twelve years. Students will examine theories and research about child development and learn to recognize and understand child behavior, using a variety of observational methods. Students will plan developmentally appropriate experiences for the school-age child, and develop basic interaction, guidance and supervision skills. The influence of the family and society as well as school-age settings will also be explored. In order to complete assignments, students must have children within this age range available to observe. Pre-requisite: English and Reading placement at college level.

EDU 172 Classroom Management (3) Various approaches for effective classroom management and discipline will be studied. Strategies will be presented to assist potential teachers in determining appropriate actions and procedures needed to establish and maintain an effective learning environment. Pre-requisite: English and reading placement must be at college level proficiency or Permission of Instructor.

EDU 174 Teaching Field Instruction/Sem I (1) This course offers pre-service teachers orientation to the field of childhood and adolescence education. Students will work at least 30 hours per semester under the supervision of an experienced teacher in an educational setting. The weekly seminar provides an opportunity to discuss and evaluate field experiences with fellow students and the course instructor. A medical exam, fingerprinting and Child Abuse Central Registrar clearance may be required. Co-requisite: HUM 275.

EDU 180 Early Childhood Education: An Introduction (3) This course is designed to introduce prospective early childhood (Birth-2) and childhood (1-6) education teachers to the historical, philosophical and cultural approaches to the study of early childhood education. Students will examine current issues and challenges and begin development of their professional education skills and beliefs. A field component will be required. Pre-requisite: English and reading placement at college level.

EDU 182 Child Development: Observation/Assessment (3) A specialized course in child development which studies the emotional, social, cognitive and physical development of the child from the prenatal period to age eight. Students will use observation and assessment techniques to build an understanding of growth and development. The influence of family and society as well as childcare and school settings will also be explored. Pre-requisite: English and reading placement must be at college-level proficiency.

EDU 184 Early Childhood Field Instruction and Seminar I (5) This first level fieldwork course gives students an orientation to the early childhood education profession, goals and objectives. Under the supervision of an experienced early childhood teacher/caregiver, each student develops basic interaction, guidance, and supervision skills. The weekly seminar is used to discuss fieldwork experience and teacher/caregiver skills. A medical exam, fingerprinting and Child Abuse Central Register clearance are required. Pre-requisite: HUM/EDU 182: Co requisite: EDU 281.

EDU 275 Cultural Foundations/Education (3) A philosophical, historical and cultural approach to the study of education in the United States. Current educational concerns that affect teaching and schools will be studied. An anti-bias perspective will be emphasized. Students will be required to complete a field component. Pre-requisite: PSY 204 or PSY 207 or HUM/EDU 182.

EDU 280 Language and Literacy Development in Young Children (3) This course examines the development of language and literacy in young children from birth through the primary years. Students will explore theoretical foundations of early literacy development and the implementation of various modules to effectively support young children as readers and writers. Other topics include: working with families to support early literacy development, selecting quality children's literature, assessing early literacy development, integrating literacy throughout the curriculum and adaptations for individual children in diverse and inclusive settings. Pre-requisites: HUM/EDU 182 or PSY 204 or PSY 207.

EDU 281 Curriculum Development (3) The theoretical basis for setting educational goals and planning developmentally appropriate experiences for children from birth to eight (with emphasis on the later years) is studied, along with methods of planning, supervising, and evaluating these experiences. Pre-requisite: HUM/EDU 182 or PSY 204. Co-requisite: HUM 184.

EDU 282 Home/School/Community (3) This course examines the contexts in which children develop, including family, school, and community, and how teachers can work together with parents and community resources to foster the optimum development of children. Pre-requisite: HUM/EDU 182 and PSY 103 or SOC 103 or Permission of Instructor.
EDU 283 Early Childhood Field and Seminar II (5) The second-level fieldwork course builds on the competencies developed during the first level. Particular attention is given to planning, supervising, and evaluating curriculum experiences that are developmentally appropriate and integrated. These are implemental in the students fieldwork classrooms. The weekly seminar is used to discuss fieldwork experiences and teaching concepts and skills. A medical exam, finger printing and Child Abuse Central Register clearance are required. Pre-requisite: HUM/EDU 184 or Permission of Instructor.

EDU 285 Early Childhood/Special Needs (3) This course provides an introduction to special education in early childhood and the early primary grades. The legal foundation of special education, public laws, the New York State Special Education process and contemporary models and issues in the field of special education will be examined. Students will explore the causes, characteristics and educational implications of disabilities. The course will also focus on selection/modifying appropriate teaching strategies in inclusive early childhood environments and in early primary classrooms. Strategies for working effectively with families and early childhood special education professionals in the context of early childhood programs will also be examined. Exploration of personal competencies and ethical issues in special education will be explored. A field component is required. Pre-requisite: HUM/EDU 182, PSY 204 or Permission of Instructor.

**Telecommunications**

*FOR MORE INFORMATION, CONTACT THE ELECTRICAL ENGINEERING TECHNOLOGY DEPARTMENT IN WHITNEY APPLIED TECHNOLOGY CENTER, ROOM W131, (315) 498-2451.*

TEL 241 Telecom 1-VOICE (4) (Integrated lecture laboratory environment) An introduction to the techniques, principles, and terminology of Voice Telecommunications will be presented. Public and private telecommunication networks will be examined. Telecommunication equipment, switching and transmission technology will be demonstrated. The frequency spectrum, modulation schemes and multiplexing techniques will be explored. Lectures, interactive learning and demonstrations will be employed. Laboratory exercises will be required. Pre-requisite: ELT 161, or ELT 153 and CMT 171 or CMT 161.

TEL 242 Telecom 2-DATA (4) (Integrated lecture laboratory environment) An introduction to the techniques, principles, and terminology of Data Communications will be represented. Public and private networks will be examined. Data communications equipment, multiplexing, interactive learning and demonstrations will be employed. Laboratory exercises will be required. Pre-requisite: TEL 241.

TEL 243 Telecom 3-LANs (4) (Integrated lecture laboratory environment) An introduction to the technology and terminology of Local Area Networks (LANs) will be presented. The topologies, transmission media, network interfaces, and the access methods will be examined. Shared resources and interconnecting of LANs will be employed. Lectures, interactive learning and demonstrations will be employed. Laboratory exercises will be required. Pre-requisite: TEL 242.

TEL 244 Telecom 4 - Advanced Topic (4) (Integrated lecture laboratory environment) This course is the capstone course (course four) in a series of telecommunications courses. The topics addressed will be state-of-the-art and will heavily depend upon the enabling competencies and skills developed by students in the first courses. Lectures, interactive learning, demonstrations, and site visits will be employed. Pre-requisite: TEL 243. For Verizon students only.

**Writing Skills Tutorial**

WSC 099 Writing Skills Tutorial (0) Focus includes both Pre-requisite skills and more complex skills taught formally in other English courses. Students may enroll only through the Writing Skills Center. Equivalent credit is determined by the professional staff, subject to the approval of the Writing Skills Center coordinator. Students may work progressively to build a variety of skills over several semesters during the course of their studies at Onondaga Community College.