

Clermont College

2008-09
Course Descriptions



All graduates of UC Clermont College will complete courses in breadth of knowledge areas. Many courses fulfill these breadth of knowledge requirements. Students should consult their individual program check sheets to determine specific courses they are required to take to meet the breadth of knowledge requirements.

Diversity and culture [DC]
English composition [EC]
Fine arts [FA]
Historical perspectives [HP]
Humanities [HU]
Literature [LT]
Mathematics [QR]
Natural sciences [NS]
Social and ethical issues [SE]
Social sciences [SS]

Any UC Clermont Course meeting a particular breadth of knowledge requirement will have the appropriate above-noted abbreviations following its description.

You can also view the current course descriptions by visiting www.onestop.uc.edu, selecting *Course Planning Guide*, selecting the college, discipline, and level (undergraduate), and then clicking on the course name. We recommend that you meet with an advisor before registering for classes.

CLERMONT COLLEGE (34)

ACCOUNTING

34ACTN141. Payroll Accounting. 3 ug. cr. Procedures and requirements for maintaining adequate payroll records and preparation of required federal, state, and local payroll tax reports. Prereq.: 34ACTN241.

34ACTN231. Accounting Work Experience and Seminar I. 3-5 ug. cr. Work experience and seminar for accounting technology.

34ACTN232. Accounting Work Experience and Seminar II. 3-5 ug. cr. Further development of work experience and seminar for accounting technology.

34ACTN233. Accounting Work Experience and Seminar III. 3-5 ug. cr. Advanced work experience and seminar in accounting technology.

34ACTN234. Accounting Work Experience and Seminar IV. 3-5 ug. cr. Completion of work experience and seminar in accounting technology.

34ACTN241. Financial Accounting I. 3 ug. cr. This course emphasizes the use of accounting information by developing critical thinking skills and the basic knowledge needed to understand and analyze financial statements of publicly reported companies. QR

34ACTN242. Financial Accounting II. 3 ug. cr. Continued analysis of financial statements and interpretation of financial reports. This course emphasizes the use of accounting information by developing critical thinking skills and the basic knowledge needed to understand and analyze financial statements of publicly reported companies. Prereq.: 34ACTN241. QR

34ACTN243. Managerial Accounting I. 3 ug. cr. Use of accounting data in planning and controlling business operations. The study of cost flows and cost behavior as used in decision making. Prereq.: 34ACTN241. QR

34ACTN244. Managerial Accounting II. 3 ug. cr. Continuing study of the use of accounting data in planning and controlling business operations; including cost flows, cost behavior as used in decision making and capital budgeting decisions. Prereq.: 34ACTN243. QR

34ACTN251. Computerized Accounting I. 3 ug. cr. Use of computerized general ledger, accounts payable, accounts receivable, payroll systems and accounting system security. Lecture and lab. Prereq.: 34ACTN241.

34ACTN252. Computerized Accounting II. 3 ug. cr. The study of advanced general ledger accounting systems, including accounts receivable, accounts payable, costing, fixed assets, and sales order processing with integration. Prereq.: 34ACTN251.

34ACTN253. Computerized Accounting III. 3 ug. cr. Continuing study of various integrated general ledger systems to include accounts receivable, accounts payable, fixed assets, payroll and other. Prereq.: 34ACTN251.

34ACTN272. Individual Taxation. 3 ug. cr. Fundamentals of federal taxation; current regulations; economic implications; procedures for preparing tax returns for individuals; sole proprietorship; practical problems and methods. Prereq.: 34ACTN241. QR

34ACTN273. Tax Preparation Service Learning. 3 ug. cr. This course provides a review of the basic tax rules learned in prior courses and allows students to use their knowledge to assist low-income and elderly taxpayers with the preparation of their individual tax returns through the Volunteer Income Tax Assistance (VITA) program sponsored by the IRS. Prereq.: 34ACTN272.

34ACTN277. Accounting for Non-Profit Organizations. 3 ug. cr. Problems relating to control of funds and other assets, accounting classifications and relationships, performance measurement and reporting. Fundamentals of fund accounting for governmental units. Prereq.: 34ACTN242. QR

34ACTN281. Topics in Accounting. 3 ug. cr. To introduce students to advanced topics in accounting such as partnership taxation, corporate taxation, and auditing. Prereq.: 34ACTN272. QR

34ACTN374. Fraud Examination. 3 ug. cr. The course will cover the principles and methodology of fraud detection and deterrence within the accounting field. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing scheme, payroll and expense reimbursement schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses. Prereq.: 34ACTN241.

ADDICTIONS

34ADDC209. Alcoholism. 3 ug. cr. This course presents a multidimensional approach to the disease of alcoholism. It provides an understanding of the sociological, psychological, moral and behavioral factors and effects associated with the disorder. In addition, students will receive a review of diagnostic and therapeutic tools currently in use. SS

34ADDC221. Assessment and Diagnosis in Addiction. 3 ug. cr. The purpose of this course is to introduce students to clinical assessment and diagnostic process in addictions. The student will learn key elements of making good assessments, use of various assessment tools, proper interviewing techniques and impediments to the assessment process. SS

ALLIED HEALTH

SEE ALSO: MEDICAL ASSISTING, BIOLOGICAL SCIENCES, PARAMEDIC EDUCATION, RESPIRATORY THERAPY & SURGICAL TECHNOLOGY

34ALH110. CPR and First Aid. 1 ug. cr. Basic Life Support for Health Care Providers and Basic First Aid. BLS includes, adult, child and infant CPR, barrier devices and AED. First Aid includes recognizing and responding to emergencies and proper aid for injuries, sudden illness, and medical emergencies. Students who complete this course receive a BLS for Health Care Providers card and a First Aid card.

34ALH170. Introductory Patient Care Skills Experience. 2 ug. cr. To introduce students to the principles and procedures of basic patient care for people in many different health care settings. Core components of the course will include certification in health care provider cardiopulmonary resuscitation, an overview of the health care delivery system, body mechanics, medical abbreviations, safety, universal precautions and infection control policies, monitoring vital signs, death and dying, communications and employability skills.

34ALH171. Health Informatics. 2 ug. cr. Exposure and orientation to the usage of computer technology in the medical office using the Medisoft medical computer package. Topics include hardware and medical software, health care networks and information systems, inputting patient information and electronic data entry. For allied health students. Prereq.: 34OATN171.

34ALH175. Human Disease. 3 ug. cr. An overview of current medical information on common clinical disorders encountered in the health field. Topics include principles of disease and diseases of the various organ systems. Prereq.: 34BIOL171, 34OATN143.

34ALH179. Personal Nutrition. 3 ug. cr. This course provides the opportunity for students to gain a basic understanding of the human body and how food choices affect health. Topics include an understanding of human physiology and the scientific method and their use in determining nutrient needs and a diet for optimal health, nutrient function and sources, energy metabolism, weight management, life stages and lifestyle choices affecting health, and global and consumer nutrition issues including food safety and food security.

34ALH180. Nurse Aide Training Program. 6 ug. cr. This course follows the curriculum from the Ohio Department of Health for preparation of nurse aides employed by long term care facilities in Ohio. Sample topics include infection control, fire and safety, resident's rights, basic nursing skills and personal hygiene skills. Lecture, laboratory and clinical hours included in the course. Students must complete the NATP application and provide proof of a negative two step Mantoux TB test within 30 days prior to start of the class.

34ALH181. Home Health Aide. 4 ug. cr. This course prepares the state tested nurse aide to work in the home health environment. Focus is on maintenance of a clean environment, basic nutrition, taking and recording vital signs, infection control, recognition of emergencies, restorative therapies, and serving the community needs. Students must hold status as a state tested nurse aide or be eligible for the state test given by the Ohio Department of Health (provide certificate of completion by approved program). Prereq.: 34ALH180.

34ALH187. Health Care Edge. 3 ug. cr. Overview of the principles and procedures of basic patient care with training in body mechanics, medical abbreviations, safety, infection control, and vital signs monitoring. The course also introduces the students to the skills and demands of health care careers. Topics include critical thinking, effective communication, time management, career exploration and medical literature searches.

34ALH271. Introduction to Pharmacology. 3 ug. cr. Introductory course in pharmacology covering general pharmacodynamics and pharmacokinetics and a survey of clinical pharmacology and pharmacogenosy. Prereq.: 34BIOL201. Coreq.: 34BIOL202.

34ALH278. Pathophysiology. 3 ug. cr. This course studies abnormal physiological processes in the human body systems as they interact with the homeostatic mechanisms. Signs and symptoms of disorders and the proper approach in treatments are presented for each body system. Prereq.: 34BIOL203.

34ALH279. Principles of Nutrition. 3 ug. cr. This course is designed to introduce the health student to the basic fundamentals of nutrition and its relationship to health care across the life span. Topics include the major classes of nutrients, their physiological function, dietary sources, requirements needed for proper health, and diseases resulting from clinical deficiencies or excesses. Prereq.: 34CHEM106, 34CHEM116.

34ALH282. Fundamentals of Phlebotomy. 4 ug. cr. This course prepares the student for entry-level phlebotomy skills. Emphasis is on the basic clinical methods of phlebotomy, hematology, venipuncture and microcollection procedures. Also introduced are the guidelines for processing and conducting special testing procedures. Lecture and lab. Before field practicum, the student must receive HBV immunization or sign a declination for the immunization. Prereq.: 34BIOL203.

34ALH283. Venipuncture. 1 ug. cr. Basic blood collection using syringes, vacuum tubes, butterfly method and finger sticks. Emphasis is on safety, infection control and basic skills. Laboratory. Before the clinical practicum occurs, the student must receive HBV immunization or produce a letter of declination. Prereq.: 34ALH282.

34ALH284. Basic EKG. 5 ug. cr. A course to prepare the student for entry-level cardiology technician skills. Topics include anatomy and physiology of the heart, electrocardiograph operation and troubleshooting, cardiac diseases, basic cardiac rhythms and the role of the cardiology technician. Lecture and lab. After completion of the course, the student is eligible for examination and certification through

the American Society of Phlebotomy Technicians (ASPT) as a cardiology technician. Before admission to the clinical setting for the field practicum, the student must provide proof of HBV immunization or written declination as well as a completed physical by a licensed physician. Prereq.: 34BIOL203.

34ALH298. Advanced Surgical Pathophysiology. 3 ug. cr. This course introduces the surgical-assisting student to advanced surgical pathologic conditions. Etiology, pathophysiology, diagnostic procedures, treatments, morbidity and mortality will be discussed. Surgical specimen handling, introduction to genetics, gene therapy and alternative therapies will also be covered. Prereq.: 34ALH278.

AMERICAN SIGN LANGUAGE

34ASL101. Beginning American Sign Language (ASL) I. 3 ug. cr. This is the first part of a three quarter sequence designed to teach American Sign Language. Students will begin the basics in this course.

34ASL102. Beginning American Sign Language (ASL) II. 3 ug. cr. This is the second of three courses in Beginning ASL. In this course the student will increase ASL vocabulary and continue developing knowledge in cultural aspects, grammatical features and beginning conversational comprehensive and expressive skills. Students will use such skills on presenting stories in ASL for their peers. Prereq.: 34ASL101.

34ASL103. Beginning American Sign Language (ASL) III. 3 ug. cr. This is the third course in Beginning ASL. In this course the student will increase ASL vocabulary and continue developing knowledge in cultural aspects, grammatical features and beginning conversational comprehensive and expressive skills. Students will be introduced to and lead through concepts that will prepare them for the Intermediate ASL courses. Prereq.: 34ASL102.

34ASL201. Intermediate American Sign Language (ASL) I. 3 ug. cr. Intermediate ASL will advance the student's manual communication skills as a second language. Course will look into the structure and grammar of ASL. Prereq.: 34ASL103.

34ASL202. Intermediate American Sign Language (ASL) II. 3 ug. cr. Intermediate ASL II will enhance communication skills in ASL. It will enable students to recognize uses of ASL as a first and as a second language. Course is designed to help students acquire a higher level of skill in some of the major grammatical features of ASL. Prereq.: 34ASL201.

34ASL203. Intermediate American Sign Language (ASL) III. 3 ug. cr. This course will help the student to acquire a higher level of skill in some of the major grammatical features of ASL. The same grammatical topics are covered in Intermediate ASL I, building on the spiraling curriculum. Prereq.: 34ASL202.

ANTHROPOLOGY

34ANTH230. Languages of the World I. 3 ug. cr. Studies how language and languages work, with examples from major and representative minor language families in ethnological, geographic, historical and typological perspectives. DC, SS

34ANTH231. Languages of the World II. 3 ug. cr. Studies how language and languages work, with examples from major and representative minor language families in ethnological, geographic, historical and typological perspectives. Prereq.: 34ANTH230. DC, SS

34ANTH232. Language and Culture. 3 ug. cr. Variation in language associated with other cultural variables, including social organization and worldview. Linguistic relativity, multi-glossia, linguistics and prehistoric cultures. Prereq.: 34ANTH231. DC, SS

34ANTH279. Medical Anthropology. 3 ug. cr. An introduction to the distribution, causation, and treatment of disease among different cultures, including non-Western practices in developed countries. DC, SS

APPLIED DESIGN

SEE ALSO: FINE ARTS

34APDS181. Photography. 3 ug. cr. Presentation of the basic principles of camera work at the introductory level. Emphasis on content and composition; properly exposed photographs; composition for impact; utilization of artificial light; self-expressions of reality or impressions through photography. FA

ART

SEE APPLIED DESIGN, FINE ARTS, ART HISTORY & ART EDUCATION

ART EDUCATION

34ARTE299. Independent Study in Art Education. 1-3 ug. cr. Individualized program in reading, studying, and/or research developed jointly by the student and instructor, subject to instructor approval. Prereq.: Permission of instructor.

ART HISTORY

34ARTH111. History of Art I: Ancient-Early Medieval. 3 ug. cr. The study of the art forms from the ancient cultures of Egypt, Classical Greece, and Rome to early Christians. FA, HP

34ARTH112. History of Art II: Gothic-Renaissance-Baroque. 3 ug. cr. Study of the art of the Age of Faith, Leonardo daVinci, Michelangelo, and Rembrandt, along with a study of the great cathedrals from Gothic to Baroque. Includes St. Peter's in Rome. Primarily lecture. FA, HP

34ARTH113. History of Art III: Seventeenth-Twentieth Centuries. 3 ug. cr. Major trends and key artists from the Romantic period to the present, including: Goya, El Greco, Impressionists, Van Gogh, Picasso, Dali, Cubism, Pop Art. Primarily lecture. FA, HP

34ARTH172. Women in Art. 3 ug. cr. This course will explore the roles women have played in art as subject and as artist. We will examine various art forms within their historical context. Emphasis will be placed on Western Civilization, including both early and modern periods. DC, FA

34ARTH276. Age of Rembrandt and Rubens. 3 ug. cr. The study of the great European artists of the 17th century, including Bernini, Rembrandt, Rubens, VanDyck, Velazquez, Dutch genre painters, and art of the reigns of Louis XIV and Charles II. HU

34ARTH277. Age of Michelangelo and Leonardo daVinci - The Italian Renaissance Art. 3 ug. cr. History of art course covering the great artistic masterpieces of the Italian Renaissance including discussions of Leonardo daVinci's Last Supper, and Michelangelo's Sistine Chapel Ceiling. HU

34ARTH281. Modern European Art: Age of Romantic and Impressionistic Art. 3 ug. cr. The study of the great European masterpieces and painters of the 19th Century: including David, Delacroix, Ingres, Courbet, Monet, Renoir, Gauguin, and Van Gogh. HU

34ARTH282. Non-Western World Cultures in Art. 3 ug. cr. A chronological survey of non-western art and architecture organized by geographical regions. Course opens with an examination of Africa and moves eastward through Asia, the Pacific Islands and concludes with the Americas. Major works of art in each of these cultures will be studied within the context of religion, philosophy, social structure and historical events. Emphasis is placed on the role of art as the mirror of the culture and time in which it is created. DC, HU

AVIATION

34AVTN100. Introduction to Aviation Technology. 1 ug. cr. Introduction to aviation technology and its curricula. An overview of the aviation industry, careers and opportunities in aviation. Topics include aircraft manufacturing, airline operations, general aviation, air freight, airport management and government service.

34AVTN201. Pilot Lectures I. 3 ug. cr. A study of the subject areas and information needed to operate as a private pilot in the aviation environment. Covers approximately half of the aeronautical knowledge needed to prepare for the private pilot written test.

34AVTN202. Pilot Lectures II. 3 ug. cr. A study of the subject areas and information needed to operate as a private pilot. Completion of the aeronautical knowledge needed to qualify for the FAA private pilot written exam. Prereq.: 34AVTN201.

34AVTN203. Pilot Lectures III. 3 ug. cr. An introduction to the subject areas and information needed to operate as an instrument-rated commercial pilot. Prereq.: 34AVTN202.

34AVTN221. Pilot Flight I. 2 ug. cr. Beginning the necessary dual flight instruction and solo flight time to qualify for the FAA private pilot certificate. Coreq.: 34AVTN201.

34AVTN222. Pilot Flight II. 2 ug. cr. In this course, the student will continue the necessary dual flight instruction and solo flight time to qualify for the FAA Private Pilot Certificate. Prereq.: 34AVTN221.

34AVTN223. Pilot Flight III. 2 ug. cr. Introduction to maneuvers required for the commercial pilot certificate. Basic radio navigation and intermediate cross country flight. Prereq.: 34AVTN222.

34AVTN224. Cross Country Flight. 2 ug. cr. Cross country flight time needed to meet FAA requirements for the commercial pilot certificate and instrument rating. Instrument holding and instrument approach procedures will be introduced. Prereq.: 34AVTN223.

34AVTN271. Survey of Meteorology. 3 ug. cr. Overview of the causes of weather and the physical processes which cause and accompany changes in weather. Prereq.: Permission of instructor. NS

34AVTN301. Instrument Flight Operations. 3 ug. cr. A continuation of the subject areas and information needed to operate as a commercially certified and instrument rated pilot. Provides the aeronautical knowledge in preparation for the FAA instrument rating written exam. Prereq.: 34AVTN203.

34AVTN302. Commercial Flight Operations and Theory. 3 ug. cr. The completion of the subject areas and information needed to pass the FAA commercial pilot written exam. Prereq.: 34AVTN301.

34AVTN303. Comprehensive Aviation Training Theory. 3 ug. cr. Discussion of the commercial flight techniques and procedures. Techniques of flight and ground instruction. Preparation for the FAA written exams for flight instructors. Prereq.: 34AVTN302.

34AVTN310. Aviation Training Principles. 3 ug. cr. Instruction on the knowledge requirements for the Flight Instructor Certificate with an airplane rating. Preparation for the Fundamentals of Instruction and Certified Flight Instructor-airplane knowledge tests. In class practice will include teaching methodology and technique. Prereq.: 34AVTN303. Coreq.: 34AVTN331.

34AVTN321. Pilot Flight IV. 2 ug. cr. Review of instrument flight operations in preparation for the FAA instrument rating.

34AVTN322. Pilot Flight V. 2 ug. cr. Introduction to high performance airplane flight operations. Continuation of solo flight time required for the commercial pilot certificate. Prereq.: 34AVTN321.

34AVTN323. Pilot Flight VI. 2 ug. cr. Completion of the flight time requirements for the commercial pilot certificate and instrument rating. Prereq.: 34AVTN322.

34AVTN331. Aviation Training Principles - Flight. 3 ug. cr. Completion of requirements and practical tests for the Flight Instructor Certificate (CFI) with single-engine airplane rating. Prereq.: 34AVTN303. Coreq.: 34AVTN310.

34AVTN371. Management of Crew Resources. 3 ug. cr. Familiarizes students with the operating principles and set up procedures for avionics equipment: auto pilots, flight director systems, Area Navigation (RNAV), Long Range Navigation (LORAN). Five weeks on flight deck management concepts. Prereq.: 34AVTN203, 34PSYC101.

34AVTN372. Aircraft Piston/Turbine Engines for Pilots. 3 ug. cr. Section one will develop an understanding of piston engines used in general aviation aircraft. Engine operating principles, procedures, safety and detection of engine irregularities. Section two will provide a comprehensive overview of the gas turbine engine including types, applications, construction and related systems. Prereq.: Permission of instructor.

34AVTN374. Principles of Aircraft Avionics. 4 ug. cr. The components and operation of aircraft communication and navigation systems are studied to a functional block diagram level. Included in the course are solid devices, bridges and monitors, synchros, servomotors and tach/rate generators, gyros, and compass systems. Elements of the FCC general radio telephone license preparation are included. Installation requirements and system inspections are emphasized in the laboratory. Prereq.: 34ELTN101.

BIOLOGICAL SCIENCES

34BIOL101. Biology I. 3 ug. cr. This course focuses on the major processes, concepts and theories of biology. Topics include the elements of chemistry important to biology; the structure and function of biological molecules; the principles of evolution; and cellular theory, organelles and processes. The application of these concepts to daily experiences and biological terms and their derivation are tied to the lecture topics. This course is primarily designed for science related programs. Completion of one year of high school biology, chemistry and algebra with a grade of C or better or completion of 34BIOL104 and 34BIOL114 is strongly recommended. NS

34BIOL102. Biology II. 3 ug. cr. Topics include the study of the processes and functions of photosynthesis, mitosis and meiosis; the fundamentals of genetics and their ramifications; the elements of replication, transcription and translation; introduction to taxonomy and bacterial groups of special importance to humans. Prereq.: 34BIOL101. NS

34BIOL103. Biology III. 3 ug. cr. Topics include the study of the principles of plant and animal phylogeny; the structure of animal tissues and the anatomy and functioning of organ systems as exemplified in the human. Prereq.: 34BIOL102. NS

34BIOL104. General Biology I. 3 ug. cr. This course explores biological processes, concepts and theories, utilizing examples from everyday life. The historical basis for our knowledge, use of the scientific method, biological terms and their derivation, ethical and/or social responsibility issues and communicating in ways appropriate to the biological sciences are related to topics under discussion. Topics include the biochemicals, cells and life processes in living organisms as well as DNA, mitosis and meiosis. This course is primarily designed for the non-science related programs. NS

34BIOL105. General Biology II. 3 ug. cr. This course explores biological processes, concepts and theories, utilizing examples from everyday life. The historical basis for our knowledge, use of the scientific method, biological terms and their derivation, ethical and/or social responsibility issues and communicating in ways appropriate to the

biological sciences are related to topics under discussion. Topics include the study of Mendelian genetics and human anatomy and physiology. Prereq.: 34BIOL104. NS

34BIOL106. General Biology III. 3 ug. cr. The historical basis for our knowledge, use of the scientific method, biological terms and their derivation, ethical and/or social responsibility issues and communicating in ways appropriate to the biological sciences are related to topics under discussion. Topics in this continuing course include the study of natural selection, taxonomy of various groups of organisms and ecology. Prereq.: 34BIOL105. NS

34BIOL111. Biology Laboratory I. 2 ug. cr. This course illustrates the processes, principles and concepts discussed in Biology I through investigative labs that emphasize examples from everyday life, the scientific method, keeping a lab notebook and collecting and analyzing data via computer. Topics include accuracy and precision of data, equipment skills, sugar in foods, fermentation, sterile technique, osmosis and study of local organisms. Coreq.: 34BIOL101.

34BIOL112. Biology Laboratory II. 2 ug. cr. The processes, principles and concepts discussed in Biology II through investigative labs that emphasize examples from everyday life, the scientific method, keeping a lab notebook and collecting and analyzing data via computer. Topics include photosynthesis, genetics, vitamin C and bacteria. Prereq.: 34BIOL111. Coreq.: 34BIOL102.

34BIOL113. Biology Laboratory III. 2 ug. cr. Topics include taxonomy, anatomy and physiology, numerous field hikes to study local organisms with special emphasis on wildflowers and independent research. Prereq.: 34BIOL112. Coreq.: 34BIOL103.

34BIOL114. General Biology Laboratory I. 2 ug. cr. Illustrates the processes, concepts and principles discussed in General Biology I through hands-on activities which emphasize examples from everyday life, keeping a lab notebook, the scientific method and collecting and analyzing data via computer. Lab exercises include sugar in one's diet, emulsifying agents, enzymes, photosynthesis, fermentation, cell division and field hikes to study local organisms. This course is primarily designed for non-science related programs. Coreq.: 34BIOL104.

34BIOL115. General Biology Laboratory II. 2 ug. cr. This course illustrates the processes, concepts and principles discussed in General Biology II through hands-on activities that emphasize examples from everyday life, keeping a lab notebook, the scientific method and collecting and analyzing data via computer. Lab exercises include genetics, vitamin C, histology, anatomy and physiology. Prereq.: 34BIOL114. Coreq.: 34BIOL105.

34BIOL116. General Biology Laboratory III. 2 ug. cr. This course illustrates the processes, concepts and principles discussed in General Biology III through hands-on activities that emphasize examples from everyday life, keeping a lab notebook, the scientific method and collecting and analyzing data via computer. Lab exercises include decomposition, bacteria, taxonomy and soil testing. Prereq.: 34BIOL115. Coreq.: 34BIOL106.

34BIOL171. Human Biology. 3 ug. cr. A basic understanding is provided of how the body functions and how students, as part of the human population, can become more integrated into the biosphere is provided. Students develop a basis for decision-making in regard to their bodies, lives, and environment. This course is primarily designed for non-science related programs. NS, SE

34BIOL201. Anatomy and Physiology I. 4 ug. cr. This course is the study of the macro and microscopic structure and functioning of the integumentary, skeletal and muscular systems of the human body, the nomenclature used in describing the structures and functions of these systems and the etymology of key terminology. Completion of one year of college preparatory biology and college preparatory chemistry with a grade of C or better within the last six years and completion of any required preparatory work (English and/or Math) is necessary to enroll

in this course. Students not meeting the above biology requirement must take General Biology I lecture and lab (34BIOL104, 34BIOL114) and General Biology II lecture and lab (34BIOL105, 34BIOL115) prior to enrolling in Anatomy and Physiology I. Students not meeting the above chemistry requirement must take General Chemistry I lecture and lab (34CHEM104, 34CHEM114) prior to enrolling in Anatomy and Physiology I. Students testing into Preparatory Composition and/or Preparatory Mathematics must complete those courses prior to enrolling in Anatomy and Physiology I. Prereq.: 34BIOL103, 34BIOL105, 34CHEM106. NS

34BIOL202. Anatomy and Physiology II. 4 ug. cr. The macro and microscopic structure and functioning of the human nervous system including the autonomic nervous system and special senses, the endocrine system and the blood. Prereq.: 34BIOL201. NS

34BIOL203. Anatomy and Physiology III. 4 ug. cr. The macro and microscopic structure and functioning of the human circulatory, respiratory, digestive, urinary and reproductive systems. Prereq.: 34BIOL202. NS, SE

34BIOL281. Microbiology. 5 ug. cr. Microorganisms, including their anatomy, physiology, taxonomy, genetics, means of control, medical significance, epidemiology and the body's defense mechanisms against them. Lab skills include oil immersion microscopy, differential staining, sterile technique, media preparation, single colony isolation, serial dilution, plate count, use of selective and differential media and membrane filtration. Prereq.: 34BIOL103, 34BIOL105, 34CHEM106. NS

34BIOL299. Independent Study in Biology. 1-3 ug. cr. This individualized program in reading, studying and/or research is developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

34BIOL301. Cell Biology. 4 ug. cr. This lecture-lab course focuses on the cell and its organelles including the microscopic and molecular structure and biochemical activities of the various organelles, the regulation and coordination of cellular processes and cytological nomenclature and its etymology. Prereq.: 34BIOL103, 34BIOL113, 34CHEM103. NS

34BIOL302. Genetics. 4 ug. cr. This course explores the history of genetics; the application and power of Mendelian analysis; chromosomal inheritance and mapping; mutation induction and effects; recombination; DNA structure, replication, transcription and translation; gene regulation; modern genetics research techniques and the social implications of genetics. Prereq.: 34BIOL103, 34BIOL113, 34CHEM103. NS

34BIOL303. Ecology. 4 ug. cr. This lecture-lab course covers basic principles of ecology including evolution, natural selection, ecosystem components, biomes, population biology and behavioral ecology. Current and historical research and etymology of terminology are discussed. Fieldwork demonstrates ecological sampling techniques. Labs include water and soil analyses and use of computers for statistical analysis. Prereq.: 34BIOL103, 34BIOL113. Coreq.: 34CHEM101. NS

BUSINESS ADMINISTRATION

34BA173. Introduction to Business. 3 ug. cr. An introduction to the business areas of ethics, management, marketing, business structure and international business.

34BA176. Business Ethics. 3 ug. cr. Introduction to ethical reasoning; communication in business, employee-employer relations; corporate responsibility; acceptable risk, ethical issues in international business; codes of ethics of specific professions. Also, short case studies will be used to illustrate each group of topics. SE

34BA181. Leadership Development. 3 ug. cr. To prepare young leaders from Clermont County to play a future role in their community. To prepare the students for constructive leadership and responsible participation in the affairs of the county. Prereq.: Permission of instructor.

34BA183. Community Leadership. 7 ug. cr. Sponsored course. Trains selected individuals to identify, recognize, and solve local community needs and problems. Teaches problem solving within the community, civic and governmental systems. Prereq.: Permission of instructor.

34BA299. Independent Study-Business. 1-3 ug. cr. An individualized business experience developed jointly by the student and the instructor. Prereq.: Permission of instructor.

BUSINESS INFORMATION TECHNOLOGY

SEE OFFICE ADMINISTRATION TECHNOLOGY

BUSINESS LAW

34BLAW251. Business Law I: Legal Process. 3 ug. cr. Development of legal thought and legal institutions. Legal environment of business, including modern legal process.

34BLAW252. Business Law II. 3 ug. cr. Contracts and Uniform Commercial Code. Law of negotiated obligations with emphasis on legal, economic, and social reasons for contract rules.

34BLAW271. The Legal Environment of Business. 3 ug. cr. Study of legal process, principles of law pertinent to business, and the legal consequences of managerial decisions.

CAD

SEE ENGINEERING GRAPHICS TECHNOLOGY

CHEMISTRY

34CHEM101. First Year Chemistry I. 4 ug. cr. Introduction to the science of chemistry. Completion of one year of high school chemistry and algebra with a grade of C or better or completion of 34CHEM104 and 34CHEM114 is strongly recommended. NS, QR

34CHEM102. First Year Chemistry II. 4 ug. cr. Continued study of the science of chemistry. Prereq.: 34CHEM101. NS, QR

34CHEM103. First Year Chemistry III. 4 ug. cr. Advanced study of the science of chemistry. Prereq.: 34CHEM102. NS, QR

34CHEM104. General Chemistry I. 3 ug. cr. An introduction to inorganic, organic, and biochemistry. Prereq.: 34MATH132. NS

34CHEM105. General Chemistry II. 3 ug. cr. Continued study of inorganic, organic and biochemistry. Prereq.: 34CHEM104. NS

34CHEM106. General Chemistry III. 3 ug. cr. Advanced study of inorganic, organic and biochemistry. Prereq.: 34CHEM105. Coreq.: 34CHEM116. NS

34CHEM111. First year Chemistry Laboratory I. 1 ug. cr. Experimental work including qualitative analysis. Coreq.: 34CHEM101.

34CHEM112. First Year Chemistry Laboratory II. 1 ug. cr. Continued experimental work including qualitative analysis. Prereq.: 34CHEM111. Coreq.: 34CHEM102.

34CHEM113. First Year Chemistry Laboratory III. 1 ug. cr. Advanced study in topics in chemistry. Prereq.: 34CHEM112. Coreq.: 34CHEM103.

34CHEM114. General Chemistry Laboratory I. 1 ug. cr. Experimental work supplementary to 34CHEM104.. Coreq.: 34CHEM104.

34CHEM115. General Chemistry Laboratory II. 1 ug. cr. Continued experimental work supplementary to 34CHEM105. Prereq.: 34CHEM114. Coreq.: 34CHEM105.

34CHEM116. General Chemistry Laboratory III. 1 ug. cr. Advanced experimental work supplementary to 34CHEM106. Prereq.: 34CHEM115.

34CHEM175. Chemistry and Life. 4 ug. cr. A continuation of General Chemistry I. Topics covered include solution concentrations and drug dosages, acids and bases, introduction to organic chemistry, structure and function of biological molecules, metabolism and nutrition. Prereq.: 34CHEM104.

34CHEM201. Organic Chemistry I. 4 ug. cr. The principles of bonding, structure, stereochemistry, synthesis, and reaction mechanisms of organic compounds. Prereq.: 34CHEM103. 34CHEM113. Coreq.: 34CHEM211. NS

34CHEM202. Organic Chemistry II. 4 ug. cr. Continued work in topics of organic chemistry. Prereq.: 34CHEM201. Coreq.: 34CHEM212. NS

34CHEM203. Organic Chemistry III. 4 ug. cr. Advanced work in topics of organic chemistry. Prereq.: 34CHEM202. Coreq.: 34CHEM213. NS

34CHEM211. Organic Chemistry Laboratory I. 1 ug. cr. An introduction to the laboratory techniques of organic chemistry; including methods of separation and synthesis. Prereq.: 34CHEM113. Coreq.: 34CHEM201.

34CHEM212. Organic Chemistry Laboratory II. 1 ug. cr. Illustration of the principles of organic chemistry. Prereq.: 34CHEM211. Coreq.: 34CHEM202.

34CHEM213. Organic Chemistry Laboratory III. 2 ug. cr. Advanced experimental techniques in organic chemistry. Prereq.: 34CHEM212. Coreq.: 34CHEM203.

34CHEM271. Forensic Laboratory Analysis. 4 ug. cr. The principles of chemical and biological analysis used in the forensic laboratory. Prereq.: 34BIOL171, 34CHEM104-106.

34CHEM299. Independent Study in Chemistry. 1-3 ug. cr. Individualized program in reading, studying, and/or research developed jointly by the student and the instructor. Prereq.: Permission of instructor.

COMMUNICATION

34COMM101. Introduction to Theatre. 3 ug. cr. Study of the theatre as an art form. How it functions in society and how the various creators of theatre approach their crafts. HU

34COMM111. Theatre Practicum I. 1-2 ug. cr. Experience in various facets of a Clermont College play production. Prereq.: 34COMM101.

34COMM112. Theatre Practicum II. 1-2 ug. cr. Continued experience in various facets of a Clermont College play production. Prereq.: 34COMM111.

34COMM171. Effective Public Speaking. 3 ug. cr. Refining and developing basic oral communication and human relations skills required in business and industry. Effective presentations featuring speech organization and idea development designed to inform, impress, entertain, and persuade. HU

34COMM176. Introduction to Interpersonal Communication. 3 ug. cr. The study of interpersonal communication in face-to-face, spontaneous interactions. Emphasis on human relationships and improved communication capabilities through the study of theories and principles and application to practical life experiences. HU

34COMM202. Persuasive Speaking. 3 ug. cr. Practice in speaking within various areas of student interest with emphasis on techniques and personal development. Emphasis on persuasive presentations with logical

proof, formal presentations, informative and special occasion speeches. Prereq.: 34COMM171. HU

34COMM231. Theatre History I. 3 ug. cr. An introduction to the history of the theatre, with an emphasis on the most notable periods ranging from ancient Greece to the Italian Renaissance. Focus on the integrated contribution of the playwright, the performer, and the designers to the theatrical event and on the interests and perspectives of their audiences. FA, HP

34COMM232. Theatre History II. 3 ug. cr. An introduction to the history of the theatre, with an emphasis on the most notable periods ranging from Elizabethan England to the early 19th century. Focus on the integrated contributions of the playwright, the performer, and the designers to the theatrical event and on the interests and perspectives of their audiences. FA, HP

34COMM233. Theatre History III. 3 ug. cr. An introduction to the history of the theatre, with an emphasis on the most notable periods ranging from the mid-19th century to the present. Focus on the integrated contributions of the playwright, the performer, and the designers to the theatrical event and on the interests and perspectives of their audiences. FA, HP

34COMM251. Special Topics in Theatre. 1-3 ug. cr. Content varies according to the interests of students and faculty. Special topics may range from playwriting and dramatic literature to performance studies and technical theatre. See postings at the originating campus. FA, HP

COMPUTER INFORMATION SYSTEMS

34CIS161. BASIC Programming I. 3 ug. cr. Structured programming techniques using the QBASIC language. Teaches syntax for programming in QBASIC as well as problem solving using the necessary commands. Subprograms, functions, and arrays are also taught as well as fundamental structures. Lecture and lab. Prereq.: 34CIS177.

34CIS171. WEB Page Design. 3 ug. cr. Course is designed to enhance students' knowledge in the creation and publication of a Web page for business. Students will be using a very popular Web page editor. Prereq.: 34CIS177, 34CIS187.

34CIS174. Database Management I. 3 ug. cr. Introduction to database system concepts and terminology with emphasis on relational database design. Topics include, but are not limited to ERDs, normalization, physical database design, etc. Database design using popular database packages. Tables, forms, queries, reports and applications that automate database functions. Hands-on active learning required. Prereq.: 34CIS177.

34CIS175. Problem Solving: Logic and Methods. 3 ug. cr. Introduction to structured design of computer programs using structured charts, pseudocode and IPO charts. The basic functions of extract, sort/merge, summarize, updating of sequential and direct access files are covered. Coreq.: 34CIS177.

34CIS177. Introduction to Information Processing. 3 ug. cr. Introduction to computer systems hardware and software. The lab portion of the course provides hands-on experience on personal computers (where word processing, spreadsheets and database are addressed). The lecture portion covers fundamentals and terminology to provide computer literacy for the student. This course prepares the student for further coursework in the personal computer area. Typing skill of 35 WPM or more is required or Keyboarding (34OATN171) must be taken concurrently. Coreq.: 34OATN171.

34CIS178. IT Fundamentals for Computer Majors. 3 ug. cr. Students will learn the fundamentals of all aspects of information technology which includes the combination of traditional computer and communication technologies. Included in this course is an introduction to computer hardware and software including such

topics as: the installation configuration and upgrading, diagnosing and troubleshooting, preventive maintenance, motherboards, processors and memory; RAM and printers. The course also covers an introduction to operating systems with topics such as: the file system, file management, command language and shell programming. The lecture portion covers history and terminology required of computer majors. Students should be prepared to spend sufficient study time outside of class to master subject material. Students in this course should have at least a general knowledge of the Windows Operating System, common business applications such as MS Office Suite, standard editors (Notepad, WordPad), have experience with browsers such as Internet Explorer or Netscape and email systems. Typing skill of at least 35 wpm is required.

34CIS185. First Year Experience for Computer Majors. 3 ug. cr. This course is designed to assist students in the academic and social transitions associated with college life. The development of specific success skills such as time management, note-taking and study strategies, career and academic guidance activities will be included in this class. This class will help students make connections between courses, experiences and student life.

34CIS187. Internet Applications and Resources. 3 ug. cr. Designed to acquaint students with the Internet, its use and history, and the wide variety of tools and applications for effectively accessing the information found on the Internet. Prereq.: 34CIS177.

34CIS191. Introduction to Simulation and Gaming. 3 ug. cr. This course introduces students to the rigorous field of interactive simulation and gaming. Students learn about the major components of modern simulations and games from both a design perspective and a technical perspective. User interface design, human computer interaction, input/output paradigms and an overview of simulation/gaming. Coreq.: 34CIS178.

34CIS201. Web Publishing. 3 ug. cr. This course covers basic Web technology and Web site XHTML, XML and cascading style sheets. Web site design is covered in depth. Students will complete a personal homepage on a UC network and a major Web site design project. Prereq.: 34CIS177.

34CIS202. Client Side Web Development. 3 ug. cr. Development of dynamic Websites using current scripting languages for client-side development. The course involves understanding the difference between client-side and server-side Web programming. Hands-on active learning required. Prereq.: 34CIS201.

34CIS203. Web Administration. 3 ug. cr. This course will cover setup maintenance and management of Web servers. Issues addressed will include user management, security and web site automation. Focus will be on the Internet information server and Apache Web server software with some coverage of Java Script servers. Prereq.: 34CIS202.

34CIS221. Computer Information Systems Work Experience and Seminar I. 3-5 ug. cr. Work experience and seminar for sophomore students in computer information systems technology.

34CIS223. Server Side Web Development I. 3 ug. cr. Development of advanced Websites and Web-based applications. Includes database back-ends. Web services, Advanced XML, Web security, etc. This course focuses on using Open Source technologies. Hands-on active learning required. Prereq.: 34CIS262.

34CIS224. Server-Side Web Development II. 3 ug. cr. Development of advanced Websites and Web-based applications. Includes database backends. Web services, Advanced XML, Web security, etc. This course focuses on using commercial technologies. Hands-on active learning required. Prereq.: 34CIS223.

34CIS232. Computer Information Systems Work Experience and Seminar II. 3-5 ug. cr. Work experience and seminar for sophomore students in computer information systems technology.

34CIS233. Computer Information Systems Work Experience and Seminar III. 3-5 ug. cr. Work experience and seminar for sophomore students in computer information systems technology.

34CIS234. Computer Information Systems Work Experience and Seminar IV. 3-5 ug. cr. Work experience and seminar for sophomore students in computer information system technology.

34CIS241. Object-Oriented Programming I. 3 ug. cr. An introduction to object-oriented programming. Building, compiling, and running programs using forms, buttons and text boxes. The object-oriented programming environment is examined as well as the development process. Prereq.: 34CIS175, 34CIS177.

34CIS242. Object-Oriented Programming II. 3 ug. cr. Advanced topics in object oriented programming. Prereq.: 34CIS241.

34CIS243. Fourth Generation Language I. 3 ug. cr. An introduction to fourth generation language utilizing one of the Internet based languages. Prereq.: 34CIS175.

34CIS245. Introduction to SQL Server Programming Language. 3 ug. cr. This course has been set up to introduce the student to another means of database creation and modification via the use of SQL programming language. Prereq.: 34CIS175, 34CIS266.

34CIS246. Advanced SQL Server Programming Language. 3 ug. cr. This course has been set up to enhance the students' knowledge of database management through the use of SQL programming language. Prereq.: 34CIS245.

34CIS251. Special Topics in Computer Information Systems. 1-3 ug. cr. The study of current, specialized topics in computer information systems. Content varies according to the interests of students and faculty. See postings at the originating campus. Credit hours will vary according to course content.

34CIS260. Computer Programming I. 3 ug. cr. This is the first programming course for students with no prior programming experience. It intends to provide an introduction to the fundamental concepts of composing and running a program using a current high-level programming language. Hands-on active learning required. Coreq.: 34CIS175, 34CIS177.

34CIS261. Computer Programming II. 3 ug. cr. This course is a continuation of Computer Programming I. Students will learn to write programmer defined functions, work with data structures, read and write files to and from disk, and construct programmer defined class as well as import pre-defined classes to use in their programs using a current high-level programmable language. Hands-on active learning required. Prereq.: 34CIS260.

34CIS262. Computer Programming III. 3 ug. cr. This course is a continuation of Computer Programming II. Students will learn to work with pointers and/or reference variables and implement abstract data types. Additional libraries of classes will be included for discussion and usage in programs. Other object oriented programming concepts such as function/operator overloading, inheritance, overrides, polymorphism and class templates will be discussed. Hands-on active learning required. Prereq.: 34CIS261.

34CIS265. Introduction to PL/SQL Programming Language. 3 ug. cr. This course has been setup to introduce the student to another means of database creation and modification via the use of SQL programming language. Prereq.: 34CIS274.

34CIS266. Advanced PL/SQL Programming Language. 3 ug. cr. This course has been setup to enhance the students' knowledge of database management through the use of the PL/SQL programming language. Prereq.: 34CIS265.

34CIS270. Principles of Information Systems. 3 ug. cr. Focuses on the support and improvement of business processes through the use of information technology. Hands-on problem solving experiences with case studies is emphasized. Prereq.: 34CIS177.

34CIS271. Systems Analysis and Design. 3 ug. cr. This course is an overview of the system development life cycle. Emphasis on current system documentation through the use of both classical and structured tools/techniques for describing process flows, data flows, data structures and file specifications. Discussion of the information gathering and reporting activities and of the transition from analysis to design. Prereq.: 34CIS175, 34CIS274.

34CIS274. Database Management II. 3 ug. cr. This course is a continuation of Database Management I. Database design using popular advanced database packages. Students will learn to work with more advanced features of DBMS such as advanced query formulation, triggers, stored procedures, databases and Web development and building applications that automate database functions. Hands-on active learning required. Prereq.: 34CIS174.

34CIS277. Simulation and Game Development I. 3 ug. cr. This course builds on the knowledge gained in Introduction to Simulation and Gaming. The students would use game engine software to develop simulations and games with particular emphasis on user interface design, human computer interaction, simulation/game character development, storyboarding and application of audio/video in simulation and game development. Lab activities will be designed to reinforce understanding of the development process as well as interactive programming techniques. Prereq.: 34CIS242, 34CIS262, 34CISM171, 34EGTN185.

34CIS278. Simulation and Game Development II. 3 ug. cr. This course is a continuation of Simulation & Game I. The students would build on the knowledge gained in the first course by acquiring techniques needed to build a simulation and game development engine, learn about physiology and kinesiology as they relate to simulation and game development, and learn to use the virtual reality tools and techniques by creating scalable virtual characters and environments for use in simulation and game development. They would also learn about the design, architecture theory, modeling and texturing methods in gaming and simulation. Lastly, they would learn the documentation related to developing simulation and games. Prereq.: 34CIS277, 34CISM275, 34FAA130.

34CIS280. Intranet. 3 ug. cr. The object of this course is to provide students with an awareness and understanding of how Internet and Intranet are employed in today's networks. Upon completion of this course, students will appreciate the value of both the Internet and intranet as a part of business applications solution, understand how to access the Intranet, and will have an awareness of the security and performance issues surrounding these technologies. Prereq.: 34CIS283-284.

34CIS281. Help Desk Support. 3 ug. cr. This course is designed to give the student an outlook and overview of what is involved in Help Desk Support. Prereq.: 34ACTN172, 34CIS174, 34CIS241, 34CSST131.

34CIS283. LAN Administration. 3 ug. cr. The study of the theory of computer networking through networking concepts, applications, operating systems, software, and hardware components. Prereq.: 34CIS177.

34CIS284. Operating Systems Administration. 3 ug. cr. The course will teach the student to perform the system administrative duties of a client/server site using a common network operating system. The tasks taught include setting up a workstation, setting up work groups, creating directories (folders) and subdirectories, managing access to shared directories and files, customizing toolbars, setting up security via password tables and levels of privileges, managing the printer resources, scheduling tasks, installing software, and managing E-mail. Prereq.: 34CIS283.

34CIS285. CIS Capstone Course. 3 ug. cr. Provides opportunity for student to use knowledge gained in previous course work in implementing a comprehensive system project. Prereq.: 34CIS223, 34CIS242, 34CIS262, 34CIS271.

34CIS286. PC Software Support. 3 ug. cr. This course will teach students how to find problems with current software installations and repair any problems and support the user in how to use the software to best fit their needs. Prereq.: 34ACTN172, 34CIS174, 34CIS283, 34CSST131.

34CIS298. Implications of Computer Technology on Our Society. 3 ug. cr. This course focuses on the impact brought upon our society by computers and its related technologies. Issues related to privacy, ethics, law, encryption, copyright, crimes, etc., will be critically examined. SE

34CIS299. Independent Study-Computer Programming. 1-3 ug. cr. An individualized computer programming experience developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

34CIS301. Data Warehousing. 3 ug. cr. This course is designed to enlighten the student to the importance of data warehousing and how to create and store data in the data warehouse. Prereq.: 34CIS246.

34CIS321. Data Structures. 3 ug. cr. Data structures, such as stacks, queues, trees, and graphs. Introduction to hashing and file structures. Introduction to sorting, searching, and complexity of algorithms. Prereq.: 34CIS261.

34CIS374. Database Management III. 3 ug. cr. Advanced database applications using Microsoft Access 2000, includes the customizing of forms, reports, data pages, integration of Access with other programs, using the world wide web and hyperlink fields, using Briefcase replica, query wizards and action wizards, creating macros for the purpose of automation, creating custom toolbars, menus and writing Visual Basic code. Prereq.: 34CIS246.

COMPUTER INFORMATION SYSTEMS - MULTIMEDIA

34CISM171. Multimedia Logistics. 3 ug. cr. This course introduces students to the products, tools and environment of the multimedia production technology profession. Primary focus in this course centers on the understanding of various file types, sizes and compression techniques used in multimedia. Further, a study of basic networking investigates how to best store or transmit these files in the appropriate multimedia environment. This course relies heavily on industry Web sites to bring state-of-the-art information directly to the student in a timely manner. The course content changes during the course if necessary to reflect the latest technology of multimedia. Prereq.: 34CIS178.

34CISM173. Audio Production. 3 ug. cr. The basic principles of digital audio are presented. Course covers the standards and methods for recording/editing and the interconnection of digital audio. Concepts of digital conversion, audio coding and processing, and use of sound effects are presented. Prereq.: 34CIS177.

34CISM178. Introduction to Multimedia. 3 ug. cr. This course introduces the student to multimedia concepts that are used to produce effective interactive projects. The focus will be on the theory of interactive design, exploring fundamental aspects of the design process, human-computer interaction, typography, graphics, video, audio, animation and project testing. Prereq.: 34CIS177.

34CISM210. Multimedia Authoring I. 3 ug. cr. The course provides an introduction to the fundamental concepts and applications of multimedia authoring. A popular software program will be used as the authoring tool for multimedia applications and the Internet (Macromedia Director). Students will learn to import and integrate media elements such as 2D and 3-D graphics, animation, sound and digital video from a wide variety of sources. Prereq.: 34CIS178.

34CISM211. Multimedia Authoring II. 3 ug. cr. Students will be introduced to all phases of the multimedia authoring software application using professional authoring software and tools. Instruction, demonstration and analysis of this software tool will prepare students for formulating projects. Prereq.: 34CISM210.

34CISM250. Survey of Modern Media. 3 ug. cr. This course traces the history of modern media beginning with the printing press, and progressing through radio, television, and computer-related media. Students will also examine the current state of media and what is likely to happen in the future. Prereq.: 34CIS178.

34CISM271. Multimedia Project Planning. 3 ug. cr. This core technology course focuses student education in three areas of time or project management. These three areas include personal time management, group management/interaction and project management. Understanding of these concepts will help students become more organized as an individual, plus give practical communication skills for interacting with others in a project grouping system. Prereq.: 34CISM171.

34CISM273. Video Production. 3 ug. cr. The basic principles of digital video are presented. Course covers the standards and methods for recording/editing and the interconnection of digital video. Concepts of digital conversion, video coding and processing, and digital audio with video are presented. Students will learn proper use and maintenance of digital video cameras and accessory equipment. Prereq.: 34CIS178.

34CISM275. 2D/3D Technical Illustration. 3 ug. cr. This course presents students with content and application for the vector graphic areas in multimedia. It will also provide students with an overview of how to model, render, light and animate in 3-D environments. Topics covered include environment navigation, primitive geometry construction, basic lofting, modifier based editing, parametric editing, texture creation, basic texture mapping, basic lighting, particle systems, and basic keyframe animation. Web design and 2D editing tools are also integrated into the course material. Prereq.: 34CISM271.

34CISM276. Digital Photography. 3 ug. cr. Image input, storage and retrieval are the focus of this course. Each electronic photograph must be handled from digitization, through augmentation and final storage or utilization phases. Raster image software will enable students to manipulate images for laboratory projects. Students will also learn proper care and use of a digital camera, and basic photography techniques such as framing, lighting and special effects. Prereq.: 34CISM271.

34CISM277. Multimedia Scriptwriting. 3 ug. cr. Introduction to development of different styles of scriptwriting. Structure, format, dialogue and theory are the main topics to be explored. The course will include critiques of scripts from selected audio and video projects, and will culminate with each student producing a short script for an audio and/or video project. Prereq.: 34CIS178.

34CISM278. Animation Development. 3 ug. cr. An advanced course where students apply the theory and concepts learned in earlier courses to assemble and produce a moving animation production with sound. Prereq.: 34CIS178.

34CISM285. Multimedia Capstone. 3 ug. cr. This course is the culmination of all skills learned in multimedia classes. It is required for graduation. Each student must do all of the following to successfully complete this course: 1) produce a completed project appropriate for his/her discipline strand; 2) formally present the project to a panel of UCC faculty members; 3) submit an accompanying paper summarizing the purpose of the project and the methods used to complete the project. Prereq.: 34CIS202, 34CISM211, 34CISM275.

COMPUTER INTEGRATED MANUFACTURING SEE MANUFACTURING ENGINEERING TECHNOLOGY

COMPUTER NETWORK SYSTEMS TECHNOLOGY SEE ELECTRONIC TECHNOLOGY

COMPUTER SYSTEMS SUPPORT

34CSST130. PC Hardware. 4 ug. cr. Introduction to PC hardware concepts. Install, configure and operate PC devices, e.g. processor, motherboard, memory, video card, disk drive, CD-ROM, sound card, printers. Prereq.: 34CIS177.

34CSST131. PC Operating Systems. 4 ug. cr. Introduction to operating systems concepts. Install, configure and use various PC operating systems, e.g., DOS, Windows 95, Windows 98, Windows NT and Linux. Prereq.: 34CSST130.

34CSST133. Basic Network Techniques. 4 ug. cr. Study of PC network concepts and user issues. Install, configure, service and administer network operating systems. Prereq.: 34CSST130.

34CSST231. CSST Work Experience and Seminar I. 3 ug. cr. Work experience and seminar for eligible students in computer systems support. Prereq.: 34CSST130, 34PD171.

34CSST232. CSST Work Experience and Seminar II. 3 ug. cr. Work experience and seminar for eligible students in computer systems support. Prereq.: 34CSST130, 34PD171.

34CSST233. CSST Work Experience and Seminar III. 3 ug. cr. Work experience and seminar for eligible students in computer systems support. Prereq.: 34CSST130, 34PD171.

34CSST234. CSST Work Experience and Seminar IV. 3 ug. cr. Work experience and seminar for eligible students in computer systems support. Prereq.: 34CSST130, 34PD171.

34CSST235. Topics in CSS. 2-4 ug. cr. This course will cover general server administration. Specific topics will include network basics, design and security of the network file systems, managing users, establishing NDS security, implementation and management of network printing, developing login scripts and remotely managing user environments with Novell Z.E.N. works. Prereq.: 34CSST133.

34CSST294. Sophomore Project. 4 ug. cr. This course will provide students with practical hands-on experience in building a network including loading operating systems and connecting hardware. The course will be a culmination of all prior classes taken in a degree program. It will include classroom and laboratory experience in computer and networking technology basics. Coverage also includes important major components of networks, fundamentals of network operation and development process. Prereq.: 34CSST133.

CRIMINAL JUSTICE TECHNOLOGY

34CJTN127. Technical Traffic Accident Investigation I. 3 ug. cr. The student will learn to identify types of evidence at the scene, differences in tire marks, road surface types and their meaning as related to drag, elevation and grade, how to correctly use a traffic template, do damage analysis, thrust and rotation and the types of vehicle disrepair and their effect on a crash. Prereq.: 34CJTN139.

34CJTN128. Technical Traffic Accident Investigation II. 3 ug. cr. The student will learn to identify data collection priorities, occupant kinetics as it relates to thrust and rotation. Also studied will be seat belt and air bag system design. Prereq.: 34CJTN127.

34CJTN129. Technical Traffic Accident Investigation III. 3 ug. cr. An exhaustive math based course wherein speed formulas will be taught as they relate to calculating vaults, flips skids, slides and airborne movements. Prereq.: 34CJTN128.

34CJTN137. Basic Accident Investigation I. 3 ug. cr. To introduce students to the basic techniques and philosophies of traffic crash investigation, understanding the elements of a crash and types of crashes. The student will be able to list the 5 levels of reporting and their importance as well as scene protection and management. Prereq.: 34CJTN181, 34CJTN213.

34CJTN138. Basic Accident Investigation II. 3 ug. cr. The student will study the different damage classifications and delineate the difference between contact and induced damage, identify different types of auto glass and how they react to crashes and identify roadway evidence. Also, the student will learn the importance of interviews as they relate to accident investigation. Prereq.: 34CJTN137.

34CJTN139. Basic Accident Investigation III. 3 ug. cr. The student will study how motion relates to crash investigation, using drag, elevation, grade, speed conversions, road surface and breaking percentages. A basic understanding of algebraic math is essential to this course. Prereq.: 34CJTN138.

34CJTN141. Basic Incident Command System. 3 ug. cr. The student will be introduced to the basic principles of the National Incident Command System (NICS) and how this system should function in conjunction with the Emergency Operations Center (EOC). The student will learn the purpose and functions of the various components of the NICS and how they inter-relate to form an efficient and effective whole. Prereq.: 34CJTN170. SE

34CJTN170. Introduction to Homeland Security. 3 ug. cr. The student will be introduced to the basic organization of the US Department of Homeland Security as well as the history of its genesis and subsequent organizational development. The student will learn the roles and functions of the various components of Homeland Security and their relationships to state and local agencies. SE

34CJTN171. Police Operations. 3 ug. cr. Introduction to the requirements of working within a law enforcement agency. Police agency decorum and protocol. Emphasis is placed on police canons and ethics. Coreq.: 34CJTN181. HP, SE

34CJTN172. Patrol Techniques. 3 ug. cr. Introduction to the basic techniques of police patrol, with emphasis on a proactive model to prevent crime and apprehend violators. Powers of observation, field interrogations, as well as arrest techniques and prisoner procedures. Coreq.: 34CJTN181.

34CJTN173. Interviewing, Interrogating and Testifying. 3 ug. cr. Development of skills in interviewing, interrogating, and testifying. Contrasts these three distinct verbal skills. Includes role playing to practice and reinforce techniques. Coreq.: 34CJTN181. SS

34CJTN174. Traffic Enforcement. 3 ug. cr. Introduction to the enforcement of Ohio Uniform Traffic Tag, and traffic accident investigation and reporting. Includes simulated traffic enforcement activities. Coreq.: 34CJTN181.

34CJTN175. Introduction to Forensic Sciences. 3 ug. cr. The student will be introduced to the methods and means utilized in applying scientific technology and principles to the investigation of criminal offenses. Various scientific disciplines will be discussed in regard to how their scope of knowledge is useful in detection and apprehending criminals. Coreq.: 34CJTN181.

34CJTN176. Forensic Identification Technology. 3 ug. cr. The student will be introduced to the application of scientific instruments and technology as it applies to the gathering of evidence at a crime scene and in a laboratory setting. Coreq.: 34CJTN181.

34CJTN181. Introduction to Criminal Justice. 3 ug. cr. An introduction to the American criminal justice system, comprised of police, court, and correctional subsystems. An overview of how these subsystems operate and interrelate. SE, SS

34CJTN183. American Criminal Justice System. 3 ug. cr. The student will be introduced to an advanced examination of the various components of the American criminal justice system and how they function and interrelate especially in the post-conviction phases of the system. Prereq.: 34CJTN181. SE

34CJTN185. Probation and Parole. 3 ug. cr. Introduces student to the basic skills required of the probation/parole officer, including ACA standards for these officers and a model system for managing client caseload. Prereq.: 34CJTN181. SE, SS

34CJTN186. Juvenile Corrections. 3 ug. cr. Introduces student to the basic skills required for working in the field of juvenile corrections. Details the history and role of the juvenile court, the problems involved in juvenile caseload and national standards for treatment. Prereq.: 34CJTN181. SE, SS

34CJTN187. Pedestrian and Bicycle Accident Investigation. 3 ug. cr. The student will be introduced to the nature of accidents involving pedestrians and/or bicycles and the specific differences in reaction of interactions between them and motor vehicles. Prereq.: 34CJTN128.

34CJTN188. Commercial Vehicle Accident Investigation. 3 ug. cr. The student will be introduced to the nature of accidents involving commercial vehicles of various sizes and types including the hazardous material considerations of scene management and protection. Prereq.: 34CJTN129.

34CJTN189. Grade Crossing Collision Investigation. 3 ug. cr. The student will be introduced to the unique environment and nature of crashes involving trains. Prereq.: 34CJTN128.

34CJTN191. Security Administration. 3 ug. cr. To acquaint students with the special needs in designing and managing security and loss prevention programs in the private sector. Prereq.: 34CJTN181.

34CJTN195. Fire, Arson and Explosives. 3 ug. cr. The student will be introduced to the application of scientific methods and means of investigating the use of incendiary and/or explosive devices in the commission of crime. The collection and preservation of evidence will be discussed and demonstrated. Coreq.: 34CJTN181.

34CJTN196. Forensic Pathology and Anthropology. 3 ug. cr. The student will be introduced to the application of scientific methods and means of identifying and investigating human remains as it relates to commission of crime. Coreq.: 34CJTN181.

34CJTN197. Firearms and Ballistics. 3 ug. cr. The student will be introduced to the application of scientific methods and means of investigating the use of firearms in the commission of crime. Firearms identification as well as the collection and preservation of evidence will be discussed and demonstrated. Coreq.: 34CJTN181.

34CJTN211. Criminal Procedure I. 3 ug. cr. Details specific constitutional requirements regarding the rules of evidence. Special emphasis is placed on the police officer's right to search and seize, as well as the consequences of an illegal search. Coreq.: 34CJTN181. SE, SS

34CJTN212. Criminal Procedure II. 3 ug. cr. Continues the analysis of constitutional guarantees, with emphasis on the protection from a warrantless arrest. Details the laws of arrest, the police power of arrest, how arrest information is obtained and the arrest process. Also covers false arrest suits. Prereq.: 34CJTN211. SE, SS

34CJTN213. Criminal Law. 3 ug. cr. Examines the basic principles of criminal law, plus a detailed analysis of the specific elements of the most common criminal offenses, as defined by the Ohio Criminal Code. Prereq.: 34CJTN212. SE, SS

34CJTN215. Directed Study/Justice. 1-9 ug. cr. Independent study, under the supervision of a program faculty member, and the writing of a research paper in an area of special interest. Prereq.: Permission of instructor. SE

34CJTN237. Traffic Accident Reconstruction I. 3 ug. cr. The student will be introduced to an advanced understanding of traffic accident causes and investigation involving concepts of linear momentum, Newtonian law, advanced analysis of evidence and damage, skid and slide marks, precise technical measurement of the scene and witness/participant interviews. Prereq.: 34CJTN129.

34CJTN238. Traffic Accident Reconstruction II. 3 ug. cr. The student will continue to study traffic accident causes and investigation involving concepts of linear momentum, Newtonian law, advanced analysis of evidence and damage, skid and slide marks, precise technical measurement of the scene and witness/participant interviews. Prereq.: 34CJTN237.

34CJTN239. Traffic Accident Reconstruction III. 3 ug. cr. Students continue to study traffic accident causes and investigation involving concepts of linear momentum, Newtonian law, advanced analysis of evidence and damage, skid and slide marks, precise technical measurement of the scene and witness/participant interviews. Prereq.: 34CJTN238.

34CJTN241. Criminal Investigation I. 3 ug. cr. Introduction to accepted criminal investigation practices and procedures. Lectures cover history, classifications within and methods/techniques of forensic sciences. Other topics: Homicide, arson investigation, auto theft, reporting and court preparation. Coreq.: 34CJTN181. SS

34CJTN242. Criminal Investigation II. 3 ug. cr. Introduction to use of various audio/visual methods to be employed in criminal investigation, evidence collection, crime scene preservation and case preparation. Also includes practical experience in crime scene assessment and evidence handling. Means and methods for overt and covert surveillance of suspects, crime scenes, special events and civil disorders. Prereq.: 34CJTN241. SS

34CJTN243. Crime Scene Photography. 3 ug. cr. Digital and 35mm camera operation and techniques specifically as they relate to forensic photography at crime and accident scenes. Prereq.: 34CJTN242.

34CJTN245. Forensic Toxicology and Serology. 3 ug. cr. The student will be introduced to the application of scientific investigation of poisons, blood and body fluids as they relate to the investigation of criminal offenses. Methods and means of on-site collection, transport and preservation of evidence samples will be discussed and demonstrated. Coreq.: 34CJTN181.

34CJTN261. Basic Police Academy I. 15 ug. cr. First half of the training program prescribed by Ohio Peace Officer Training Academy (OPOTA) required by the State of Ohio to become a sworn law enforcement officer. Intense, detailed instruction by certified OPOTA instructors for 390 of the hours necessary to secure certification to perform law enforcement duties. Prereq.: Permission of instructor. SS

34CJTN262. Basic Police Academy II. 15 ug. cr. The second 390 hours of instruction toward the OPOTA certificate required by the State of Ohio to become a sworn law enforcement officer. Prereq.: 34CJTN261. SS

34CJTN265. Forensic Mapping. 3 ug. cr. The student will be introduced to the use of advanced and highly specialized devices and techniques used in mapping and investigating crash scenes. Prereq.: 34CJTN129.

34CJTN270. Special Field Problems. 3 ug. cr. Analysis of special field problems police officers encounter. Emphasis placed on psychological implications. Correct police techniques and community resources available to assist in certain circumstances. Includes sex offenders and offenses; mentally ill persons; alcoholism and drug addiction, gambling and vice; liquor law violations; homeless persons. Coreq.: 34CJTN181. SE

34CJTN273. Domestic Violence. 3 ug. cr. Application of crisis intervention theory to the domestic dispute situation. Includes an analysis of Ohio's Domestic Violence Act, including criminal and civil remedies, spouse abuse, child abuse, elder abuse and juvenile runaways. Emphasis placed on intervention strategies. Coreq.: 34CJTN181. SE, SS

34CJTN274. Managing Conflict and Assaultive Behavior. 3 ug. cr. Adapts and applies crisis intervention theory to the development and practice of negotiation techniques for specific incidents of impending potential aggression and/or violence. Coreq.: 34CJTN181. SE, SS

34CJTN275. Community Oriented Policing. 3 ug. cr. Introduction to the principles of human behavior and the psychology of community-oriented policing. Study of the role of a law enforcement officer as a community and civic leader. Prereq.: 34CJTN181.

34CJTN278. Career/Life Stress Management. 3 ug. cr. Examination of the stress syndromes in the work and life environments with emphasis on identification of stressors, emotional, and physical responses, and intervention strategies. Prereq.: Permission of instructor. SS

34CJTN280. Adult Detention Facilities. 3 ug. cr. Introduces students to the basic skills required to be a corrections officer in an adult facility. Designed to meet ACA standards, requirements of the Ohio Bar for adult detention facilities, jail standards, behavioral principles and techniques required in a detention setting. Prereq.: 34CJTN181. SE, SS

34CJTN283. Corrections Alternatives. 3 ug. cr. Details the formal alternatives supported and utilized by the criminal justice system in the corrections area. Designed to familiarize students with and promote understanding of these alternatives and their role. Prereq.: 34CJTN181. HP, SS

34CJTN284. Legal Issues in Corrections. 3 ug. cr. Detail relevant law and recent court cases regarding the area of corrections. Provides an understanding of the rights of prisoners as well as the rights and liabilities of correctional personnel. Prereq.: 34CJTN181. SE, SS

34CJTN285. Financial Fraud. 3 ug. cr. To acquaint students with the methods and means utilized in fraudulently obtaining goods, services or funds from private sector corporations and institutions. Prereq.: 34CJTN181.

34CJTN286. Loss Prevention Technology. 3 ug. cr. To acquaint students with the mechanical, electrical and electronic devices and systems available to reduce loss and investigate theft. Prereq.: 34CJTN181.

34CJTN287. Legal Issues in the Private Sector. 3 ug. cr. Details relevant law and recent court cases regarding loss prevention in the private sector. Prereq.: 34CJTN181.

34CJTN288. Safety and Health Inspections. 3 ug. cr. To acquaint students with the provisions of OSHA and OEPA and the techniques of insuring compliance through inspection and accident investigation. Prereq.: 34CJTN181.

34CJTN289. Traffic Planning and Management. 3 ug. cr. To acquaint students with the techniques and problems associated with enforcing traffic regulations, planning traffic flow and designing traffic plans on private property. Prereq.: 34CJTN181.

34CJTN298. Approved Field Placement. 1-6 ug. cr. Work in an approved agency to help integrate classroom learning with real world field experience. Prereq.: Permission of instructor.

EARLY CHILDHOOD EDUCATION

34ECE271. Foundations in Early Childhood Education. 3 ug. cr. This course is designed for the beginning early childhood education student. The course introduces the student to the current knowledge base related to families, how young children develop and learn, and early childhood education programs. The course content includes (a) current theories on how young children develop and learn, (b) the historical, philosophical, and social foundations of contemporary programs, (c) developmentally appropriate practice (DAP), (d) the role of the early childhood professional, and (e) current early childhood education issues. Prereq.: 34PSYC205.

34ECE272. Health, Safety, and Nutrition. 3 ug. cr. This course is designed to provide students with a comprehensive knowledge base regarding current health, safety, and nutritional practices from birth through adulthood. A combination of workshops, multimedia lectures, and demonstrations will provide students with information and certification of training in (a) basic cardiopulmonary resuscitation (CPR), (b) first aid, and (c) communicable diseases. Moreover, students will receive the training for child abuse and/or neglect required by the Ohio Department of Human Services and the Ohio Department of Education. In addition, topics covered will include current recommendations for nutrition and exercise to maintain a healthy lifestyle throughout the life span. The course will provide students with information to make appropriate health and safety related decisions.

34ECE301. Developmentally Appropriate Reading Practices for Early Childhood Education. 3 ug. cr. This three-credit hour course focuses on a developmentally appropriate literature-based curriculum for young children birth through age eight. It examines how to use children's literature to develop integrated curricula following NAEYC's recommendations. Students will examine the different literary genres and themes appropriate for children and will read a variety of books written for the young child. Students will come to know noted authors and illustrators of children's books, as well as best practices for integrating literature into the classroom. Students are required to engage in a fieldwork/practicum situation for 2 hours per week throughout a five-week period in which they will work with emergent reading strategies and intervention one-on-one with a young reader. Prereq.: 34ECE271.

ECONOMICS

34ECON101. Principles of Economics I: Microeconomics. 3 ug. cr. An analysis of the economics of the business firm including such topics as: supply and demand, price determination under different competitive situations, and resource use rules for individual firms. QR, SS

34ECON102. Principles of Economics II: Macroeconomics. 3 ug. cr. An analysis of aggregate economics including such topics as: growth, national income, fiscal and monetary policies, and the banking system. SS

EDUCATIONAL FOUNDATIONS

SEE ALSO: ART EDUCATION, EARLY CHILDHOOD EDUCATION & SPECIAL EDUCATION

34EDFN201. Schooling and Teaching in America. 4 ug. cr. A critical analysis of the development and structure of schooling in the United States, exploring political decisions and conflict, cultural interactions and collisions, and economic changes. DC, HP

34EDFN231. Human Diversity and Schooling in American Society. 3 ug. cr. An introduction to effective classroom practices concerning issues of race, religion, gender, socioeconomic status, political beliefs or exceptionality. Prereq.: 34EDFN131. DC, SE

34EDFN233. Classroom Management and Learning. 3 ug. cr. This course is an introduction to the foundations, theories and practices of classroom management and learning. It is intended to help teachers develop the classroom as a caring democratic learning community that enhances the dignity competence of all students. Prereq.: 34EDFN201, 34EDFN231. SE

34EDFN234. Educational Assessment. 3 ug. cr. Theory and educational issues related to the psychological view of the person, social and personality psychology, learning theory, tests, measurement, and evaluation. Prereq.: 34EDFN233, 34PSYC102.

34EDFN235. Education Capstone. 3 ug. cr. This course is a capstone, or culminating, learning experience for students who are graduating from the associate degree programs in education at the University of Cincinnati Clermont College. Students will (1) collect, review and critically evaluate their college studies to date; (2) outline their future educational/professional goals and areas of scholarly interest; (3) identify and explain connections among college courses and key concepts in terms of their current views of educational philosophies, theories and practices; and (4) demonstrate their growth and development, integrating theory and practice, through course activities, including a capstone portfolio. Prereq.: 34EDFN234. DC, SE

34EDFN247. Computer Tools for Teachers. 4 ug. cr. Designed to teach pre-service teachers how to integrate technology in instruction. This course encompasses effectively identifying, locating, evaluating, designing, preparing and efficiently using educational technology as an instructional resource in the classroom as related to principles of learning and teaching. Students will develop increased classroom communication abilities through lectures, discussions, modeling, laboratory experiences and completion of a comprehensive project. Prereq.: 34EDFN233.

34EDFN270. Educational Psychology I. 3 ug. cr. Students engaging in the Educational Psychology course will examine, discuss, and report on major theories of human development as they relate to teaching and learning. The role of factors in the students' environment that influence students' learning and development are considered. Prereq.: 34PSYC101.

34EDFN275. Educational Psychology. 4 ug. cr. This course examines the major theories of human development and learning, motivation, instructional strategies, assessment, and examines similarities and differences in learners. The role of factors in the students' learning and development are considered. This course familiarizes students with the integrative aspects of human lifespan important to educational psychology with emphasis on stages of development (e.g. birth through eight). Students will become knowledgeable about the educational theories and practices that shape teaching and learning in schools, communities and centers. Prereq.: 34PSYC101. SS

34EDFN299. Independent Study in Education. 1-3 ug. cr. Individualized program in reading, studying and/or research developed jointly by the student and instructor in the appropriate area of Education. Prereq.: Permission of instructor.

ELECTRONIC TECHNOLOGY

34ELTN102. Elements of Electrical and Computer Engineering Technology. 3 ug. cr. Survey of electrical and computer engineering technology. An introduction to circuit theory, and computer simulation and computer systems concepts. Coreq.: 34ELTN112, 34MATH133. QR

34ELTN112. Elements of Electrical Computer Engineering Technology Laboratory. 1 ug. cr. Laboratory exercises emphasizing the practical aspects of CAD, computer simulation and laboratory testing of simple DC circuits. Coreq.: 34ELTN102.

34ELTN121. Computer Network Systems I. 4 ug. cr. This course will provide students with classroom and laboratory experience in computer and networking technology basics. Coverage also includes important major components of networks, fundamentals of network operation and the CCNA process.

34ELTN122. Computer Network Systems II. 4 ug. cr. This course is a continuation of Computer Network Systems I. The course has been designed to increase competencies in the areas of routers and routing basics. Prereq.: 34ELTN121.

34ELTN123. Computer Network Systems III. 4 ug. cr. This course is a continuation of Computer Network Systems II. This course is designed to provide instruction about switching and intermediate routing and WAN technology basics. Prereq.: 34ELTN122.

34ELTN124. Computer Network Systems Certification Review. 1 ug. cr. This is a network review course to prepare students to take the Network+ certification exam (CompTIA) and the CCNA, Cisco Certified Network Associate, certification exam. The course will include all important topics covered in the Computer Network Systems I, II and III courses. Lab sessions will be scheduled as necessary to demonstrate and clarify important topics. Coreq.: 34ELTN123.

34ELTN170. Voice & Data Communications. 3 ug. cr. This course will teach students the relationship between digital systems and computer technology. It will expand to include voice and data communications across the Internet and other information technologies. Prereq.: 34ELTN102, 34ELTN112.

34ELTN171. Electronics for PC Technicians. 4 ug. cr. The relationship between electronic technologies and computer technology will be demonstrated. The electronic function of computer boards and other information technologies will be investigated. Prereq.: 34ELTN102, 34ELTN112.

34ELTN221. Advanced Computer Network Systems I. 5 ug. cr. This course covers CCNP 1: Advanced Routing (the first of four courses leading to the Cisco Certified Network Professional (CCNP) designation). This course introduces Cisco Networking Academy Program students to scaling IP networks. Students learn to use VLSM, private addressing, and NAT optimize IP address utilization. The majority of the course content related to learning how to implement the RIPv2, EIGRP, OSPF, IS-IS, and BGP routing protocols. In addition, the course details the important techniques used for route filtering and route redistribution. Extensive lab exercises are included. Prereq.: 34ELTN121.

34ELTN222. Advanced Computer Network Systems II. 5 ug. cr. This course covers CCNP 2: Remote Access (the second of four courses leading to the Cisco Certified Network Professional (CCNP) designation). CCNP 2 introduces student to the implementation of Cisco routers in WAN applications. The course focuses on the selection and implementation of the appropriate Cisco IOS services required to build intranet remote access links. Students will develop skills with the specific WAN technologies of analog dialup, ISDN BRI and PRI, Frame Relay, broadband, and VPN. This hands-on, lab-oriented course stresses the design, implementation, operation, and level 1 troubleshooting of common WAN connectivity options. Extensive lab exercises are included. Prereq.: 34ELTN221.

34ELTN223. Advanced Computer Network Systems III. 5 ug. cr. This course covers CCNP 3: Multilayer Switching (third of four courses leading to the Cisco Certified Network Professional (CCNP) designation). CCNP 3 introduces students about the deployment of the state-of-the-art campus LANs. The course focuses on the selection and implementation of the appropriate Cisco IOS services to build reliable scalable multilayer-switched LANs. Students will develop skills with VLANs, VTP, STP, inter-VLAN routing, multilayer switching, redundancy, Cisco AVVID solutions, QOS issues, campus LAN security, and emerging transparent LAN services. This hands-on, lab-oriented course stresses the design, implementation, operation and troubleshooting of switched and routed environments. Extensive lab exercises are included. Prereq.: 34ELTN222.

34ELTN224. Advanced Computer Network Systems IV. 5 ug. cr. This course covers CCNP 4: Network Troubleshooting (last of four courses leading to the Cisco Certified Network Professional (CCNP) certification). CCNP 4 teaches students about the troubleshooting network problems. The course focuses on the documenting and baselining a network, troubleshooting methodologies and tools, and Layers 1 to 7 troubleshooting. Extensive lab exercises are included. Prereq.: 34ELTN223.

34ELTN225. Advanced Computer Network Systems Certification Review. 1 ug. cr. This is a network review course to prepare students to take the CCNP, Cisco Certified Network Associate certification exam series. This course will include all important topics covered in the Advanced Computer Network Systems I, II and III courses. Lab sessions will be scheduled as necessary to demonstrate and clarify important topics. Coreq.: 34ELTN223.

34ELTN299. Independent Study in Electrical Engineering. 1-3 ug. cr. Further inquiry into the specifics of engineering jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

ENGINEERING GRAPHICS TECHNOLOGY

34EGTN101. Freshman Year Experience: Your Learning Edge. 1 ug. cr. Skills and strategies necessary for success in the classroom. Topics include time management, test taking tips, reducing test anxiety, computer literacy, active listening, problem-solving, learner responsibilities, and college resources.

34EGTN110. Engineering Drawing I. 2 ug. cr. Lettering, geometric construction, sketching, orthographic projection, dimensioning, and auxiliary views.

34EGTN177. CAD for Non-Majors. 3 ug. cr. Introduction to computer-aided drafting and design software used with personal computers. Topics include basic concepts and terminology associated with computer systems (hardware and software) and CAD. Basic commands and concepts such as drawing and editing commands, geometric construction, and basic 2-D drawings.

34EGTN181. CAD I. 3 ug. cr. Introduction to computer-aided design and drafting (CADD) software used with personal computers. Topics include basic commands and concepts, such as drawing commands, editing commands, and isometric drawings.

34EGTN182. CAD II. 3 ug. cr. Tolerance dimensioning and geometric tolerancing, assembly and detailed drawings, and introduction to 3-dimensional constructions. Prereq.: 34EGTN181.

34EGTN185. Introduction to Solid Modeling. 3 ug. cr. An introduction to parametric 3-D solid modeling. Students will build parametric solid models using primitives, sketches and features. Part creation and assembly design will be the focus of the course. Prereq.: 34EGTN182.

34EGTN200. Tool Design I. 3 ug. cr. Theory, principles and drawing techniques for the design of jigs and fixtures. CAD based. Prereq.: 34EGTN182.

34EGTN201. Tool Design II. 3 ug. cr. Theory, principles and drawing techniques for die, gage and mold design, and construction. CAD based. Prereq.: 34EGTN200.

34EGTN221. Computer Aided Design Work Experience and Seminar I. 3 ug. cr. Work experience and seminar for sophomore engineering graphics students.

34EGTN222. Computer Aided Design Work Experience and Seminar II. 3 ug. cr. Continued work experience and seminar for engineering graphics students.

34EGTN223. Computer Aided Design Work Experience and Seminar III. 3 ug. cr. Advanced work experience and seminar for engineering graphics students.

34EGTN224. Computer Aided Design Work Experience and Seminar IV. 3 ug. cr. Completion of work experience and seminar for engineering graphics students.

34EGTN231. CAM I. 3 ug. cr. Basics of CAM systems - surfacing, complex geometry generation, basic tool path generation, and 2 axis-3 axis machining. Prereq.: 34EGTN182.

34EGTN232. CAM II. 3 ug. cr. Continuation of CAM I contoured swept surfaces, complex surface generation, tool avoidance, 4 axis-5 axis machining, EDM programming. Prereq.: 34EGTN231.

34EGTN252. Elements of Machine Design. 3 ug. cr. Problem solving and analysis of simple mechanisms. Selecting or designing appropriate components for mechanical devices. CAD based. Prereq.: 34EGTN200.

34EGTN261. Engineering Design Analysis I. 3 ug. cr. Designed to use sophisticated computer-aided engineering tools to develop designs for complex mechanical systems. Teams of 4-6 students select a project, define the requirements for the project, and complete a preliminary design and analysis of the system. Prereq.: 34EGTN185.

34EGTN262. Engineering Design Analysis II. 3 ug. cr. Continuation of Engineering Design Analysis I. Students will be taught to use sophisticated computer aided engineering tools to develop design for complex mechanical systems. Teams of 4-6 students select a project, define the requirements for the project and complete a sophisticated design and analysis of the system. Prereq.: 34EGTN261.

34EGTN271. Post Processors. 3 ug. cr. Introduction to customizing post processors for CAM systems, system variables, machine language basics and changing variables through CAM systems to get desired tool path files. Prereq.: 34EGTN231.

34EGTN273. Architectural Design. 3 ug. cr. Architectural design and construction. Development and use of elevation, plan, detail, and perspective drawings in planning and designing residential, business and industrial structures. Prereq.: 34EGTN182.

34EGTN275. Welding Design. 3 ug. cr. The objective of the course is to introduce students to the design process used in welding design CAD drawings. The course covers basic material science, hardness, stress-strain, and joining (welding) processes. Welding types covered include MIG-welding, TIG-welding, gas welding, soldering, spot welding, and riveting. Students will design welded parts assemblies and use symbols related to welding. Prereq.: 34EGTN182.

34EGTN281. Advanced CAD I. 3 ug. cr. Advanced CAD techniques using software as a tool to model manufacturing parts, set up for NC tooling, generate tool paths and animate tool paths. Prereq.: 34EGTN185.

34EGTN282. Advanced CAD II. 3 ug. cr. Continuation of Advanced CAD I using software to create production mechanical drawings and concept design. Prereq.: 34EGTN281.

34EGTN283. Special Topics in Computer Aided Design. 3-4 ug. cr. This course is utilized to teach sophomore level students software and equipment updates that are too detailed for inclusion in regular courses. The course will concentrate on software and equipment that is in high demand or newly released. Prereq.: 34EGTN185.

34EGTN294. Sophomore Project. 3 ug. cr. Capstone project course for student to utilize all CAD design knowledge learned throughout the program. Prereq.: 34EGTN201.

34EGTN295. Rendering and Animation. 3 ug. cr. Rendering and animation techniques for presenting conceptual projects in mechanical and architectural fields. Use of AutoDesk's 3-D Studio software allows students to assign textures and light to animations and 3-D models. Prereq.: 34EGTN182.

ENGLISH

34ENGL097. Preparatory Reading and Writing II. 6 ug. cr. An integrated reading and writing course at the intermediate level. The writing component stresses basic writing skills, including response to texts. The reading component stresses comprehension skills and introduces critical reading and inferences. Does affect grade point average, but does not satisfy degree requirements.

34ENGL099. Preparatory Composition. 3 ug. cr. Instruction in the basic literacy skills generally required of college writers. Students will practice these literacy skills by writing short assignments as well as summarizing and responding to texts. Does not satisfy degree requirements.

34ENGL101. English Composition I. 3 ug. cr. The first of a three quarter composition sequence. Upon completion of this three quarter sequence, students will have the ability to read and write critically and independently, avoiding basic errors in grammar, punctuation and mechanics. Emphasis in 101 is on developing a workable writing process, writing personal and persuasive essays and reading short non-fiction selections, with an introduction to using library and electronic resources. Successful college placement exam or ENGL 099.

34ENGL101H. Honors English Composition I. 3 ug. cr. The first of a three quarter composition sequence. Upon completion of this three quarter sequence, students will have the ability to read and write critically and independently, avoiding basic errors in grammar, punctuation and mechanics. Emphasis in 101 is on developing a workable writing process, writing personal and persuasive essays and reading short non-fiction selections, with an introduction to using library and electronic resources. This course shall also involve students writing about an experiential and/or service-learning component to this course, e.g., attendance at UC's Ropes Lecture Series or participation in a Habitat for Humanity event, as defined by the instructor in the syllabus for this course. In order for a student to enroll in E101H, he/she must have been formally invited to the CC honors program in a letter from the CC Dean, CC Associate Dean of Academic Affairs, and/or CC Honors Coordinator. Prereq.: 34ENGL099.

34ENGL102. English Composition II. 3 ug. cr. Continuation of sequence, focusing on writing more advanced assignments in persuasive and analytical writing, on critical reading of various genres and on using, evaluating and documenting library and electronic resources. Prereq.: 34ENGL101.

34ENGL102H. Honors English Composition II. 3 ug. cr. A continuation of the three-quarter composition sequence, focusing on writing more advanced assignments in persuasive and analytical writing, on critical reading of various genres and on using, evaluating and documenting library and electronic resources. Prereq.: 34ENGL101H.

34ENGL111. Advanced English Composition I. 3 ug. cr. The development of ideas in well-organized expository essays written in standard, edited English. Reading and responding to selected masterpieces of Western literature from the ancient world.

34ENGL112. Advanced English Composition II. 3 ug. cr. The development of ideas in well-organized expository essays written in standard, edited English. Introduction to the fundamentals of library research.

34ENGL151. Paired Effective Reading and Introduction to Information Processing. 3 ug. cr. This course will provide students with the reading and study skills that can be directly applied to Introduction to Information Processing class. Coreq.: 34CIS177.

34ENGL152. Paired Effective Reading and Algebra. 3 ug. cr. This course will provide students with the reading and study skills that can be directly applied to Introductory Algebra I class. Coreq.: 34MATH132.

- 34ENGL153. Paired Effective Reading and Psychology.** 3 ug. cr. This course will provide students with the reading and study skills that can be directly applied to Introduction to Psychology I class. Coreq.: 34PSYC101.
- 34ENGL171. Student Newspaper Workshop I.** 1-3 ug. cr. Class produces student newspaper. Limited to 12 students with interest in writing or journalism.
- 34ENGL172. Student Newspaper Workshop II.** 1-3 ug. cr. Student newspaper workshop teaches intermediate skills for journalism. Limited to 12 students with interest in writing. Newspaper is produced.
- 34ENGL173. Student Newspaper Workshop III.** 1-3 ug. cr. Student newspaper workshop teaches advanced skills for journalism. Limited to 12 students with interest in writing. Newspaper is produced.
- 34ENGL207. American Writers I.** 3 ug. cr. Selected works in American literature from the Colonial period to 1865. Fiction, essays and personal narratives as well as poetry will be included. Prereq.: 34ENGL102. LT
- 34ENGL208. American Writers II.** 3 ug. cr. Selected works in American literature from 1865 to 1915, including short and long fiction, poetry, critical essays. Prereq.: 34ENGL102. LT
- 34ENGL209. American Writers III.** 3 ug. cr. Selected works in American literature from 1915 to the present including drama, short and long fiction, poetry, critical essays. Prereq.: 34ENGL102. LT
- 34ENGL211. Creative Writing: Fiction.** 3 ug. cr. This course introduces students to principles of fiction writing, with secondary attention to writing poetry. Using a workshop approach, students will produce fiction and analyze others' work. Assigned readings will introduce model stories and modern theory of writing fiction. Prereq.: 34ENGL102. FA
- 34ENGL214. Advanced English Grammar.** 3 ug. cr. This course takes as its core the study of English syntax. As a discourse community, the class will systematically examine the functions and interrelations of sentence components - words, phrases, and clauses. We will work inductively to form grammatical rules and apply those rules in creating prose writings that are correct in syntax, usage, and punctuation. Upon completing this course, students will be able to conduct syntactical analyses of almost any sentence presented to them, generate a variety of syntactical structures, understand rhetorical implications of grammatical choices, and improve writing and proofreading skills. Prereq.: 34ENGL102.
- 34ENGL221. Diversity in Literature: World Literature before 1500.** 3 ug. cr. First of a two-part series exploring multicultural literature about nature, ethnicity, gender, culture, family and identity. The selections offer diverse perspectives in history, culture, class, geography, age, gender and sexual orientation. Literature of various genres (short story, novel, poetry, autobiography, testimony, nonfiction) guides students to a better understanding of people of many cultural backgrounds. Students develop critical as well as creative thinking, writing and communication strategies and skills as they examine the literary treatment of human relations in a multicultural society. Part I focuses on analysis of world literature before 1500. Prereq.: 34ENGL102. DC, LT
- 34ENGL222. Diversity in Literature: World Literature After 1500.** 3 ug. cr. Second of a two-part series exploring multicultural literature about nature, ethnicity, gender, culture, family and identity. The selections offer diverse perspectives in history, culture, class, geography, age, gender and sexual orientation. Literature of various genres (short story, novel, poetry, autobiography, testimony, nonfiction) guides students to a better understanding of people of many cultural backgrounds. Students develop critical as well as creative thinking, writing and communication strategies and skills as they examine the literary treatment of human relations in a multicultural society. Part II focuses on analysis of world literature after 1500. Prereq.: 34ENGL102. DC, LT
- 34ENGL224. Literary History of Drama.** 3 ug. cr. This course provides an overview of the history of western drama from ancient Greek stage to the 20th century and covers works primarily in the English language. Prereq.: 34ENGL102. LT
- 34ENGL227. Literature and Gender.** 3 ug. cr. This course examines attitudes about gender reflected in literary texts, the lives of authors and the social and historical milieu surrounding those texts. Prereq.: 34ENGL102. DC, LT
- 34ENGL228. Ethnic and Minority Literatures of the United States.** 3 ug. cr. Using fiction, non-fiction, drama, poetry and when helpful for context, film, music, history and art, this course will seek to explore our diverse literary heritage and equally diverse culture through the lens of authors who, by nature of their racial, ethnic, religious, and sexual identification, have operated from a unique and often marginalized and hyphenated position in American culture and society. Prereq.: 34ENGL102. DC, LT
- 34ENGL231. Major British Writers I.** 3 ug. cr. Social and historical survey from Beowulf to the 16th century centering on the theme of emerging national consciousness. Prereq.: 34ENGL102. LT
- 34ENGL232. Major British Writers II.** 3 ug. cr. Social and historical survey from the 16th century to the mid 19th century with attention to England's rise to international prominence. Prereq.: 34ENGL102. LT
- 34ENGL233. Major British Writers III.** 3 ug. cr. Social and historical survey from the mid 19th century to the present with attention to England's fall from international dominance. Prereq.: 34ENGL102. LT
- 34ENGL244. Writing for Children and Teens.** 3 ug. cr. The art, craft, and business of writing children's stories and books, developing plots, assessing the market, targeting age groups and capturing a child's point of view. Writing in a clear, vivid, interesting style. Prereq.: 34ENGL102.
- 34ENGL255. Science and Literature in the Renaissance.** 3 ug. cr. This course will explore the ways in which science and technology influence values and beliefs in both the Renaissance and the 20th century. Prereq.: 34ENGL102. LT
- 34ENGL275. Introduction to Literature.** 3 ug. cr. An introduction to the distinctive character of the major literary genres (drama, poetry, prose) with close attention to the techniques of interpretation and the fundamentals of literary theory. Prereq.: 34ENGL102. LT, SE
- 34ENGL276. Survey of Old Testament Literature.** 3 ug. cr. A study of selected books of the Old Testament; analysis of the literary and philosophical importance of these books; written essays to document the students' understanding of the literature. Prereq.: 34ENGL102. LT
- 34ENGL277. The New Testament as Literature.** 3 ug. cr. A survey of the literature of the New Testament, with particular attention to literary genres and general attention to comparative ancient and modern literature. The significance of historical, political, sociological, and religious influences on writing and interpreting literature will be examined. Some attention to applicability of New Testament literature to contemporary issues. Prereq.: 34ENGL102. LT
- 34ENGL281. Contemporary Short Story.** 3 ug. cr. Selected readings in short fiction from American, English and Continental authors from 1945 to the present. Prereq.: 34ENGL102. DC, LT
- 34ENGL283. Contemporary Novel.** 3 ug. cr. Selected twentieth century novels and novellas in cultural and literary contexts, both English and American. Prereq.: 34ENGL102. DC, LT
- 34ENGL284. Contemporary Poetry.** 3 ug. cr. Schools and major poets from 1915 to the present, both English and American. Prereq.: 34ENGL102. DC, LT

34ENGL285. Popular Fiction. 3 ug. cr. This course introduces, varying each quarter, one of the diverse sub-genres of narrative fiction, such as gothic fiction, science fiction, cyberpunk, romance, folklore, hypertext fiction, travel narratives, and detective stories. It not only studies the primary texts that epitomize the sub-genre but also explores the artistic and socio-cultural processes that shaped the production, appreciation and interpretation of the texts. Prereq.: 34ENGL102. DC, LT

34ENGL289. Intermediate Composition. 3 ug. cr. Using specific themes drawn from broad disciplinary fields, this intermediate level, general education course builds upon and enhances the writing and reading skills developed in first-year writing courses (English 101 & 102). The course emphasizes critical reading and writing, more advanced research and argumentative skills and rhetorical understanding of discourse as it is used in different disciplines and discourse communities. This course will bridge students' learning about writing from the first-year sequence to more advanced writing in their chosen disciplines in upper-level courses. Prereq.: 34ENGL102.

34ENGL291. Special Topics. 3 ug. cr. This course designation allows special courses to be introduced suited to faculty interests and student needs. Prereq.: 34ENGL102. HU

34ENGL299. Independent Study in English. 1-3 ug. cr. An individualized program in reading and/or research developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

34ENGL324. Journalism. 3 ug. cr. A survey of the history and current practice of journalism in America, covering legal and ethical concepts, range and types and analysis of writing styles from excellent models; case studies. Prereq.: 34ENGL102.

34ENGL329. Reading and Writing Autobiography. 3 ug. cr. Readings in the development of autobiography as a literary mode in British and American culture and writing in this mode throughout the quarter, as personal disciplined narrative. Prereq.: 34ENGL102.

34ENGL371. Technical Writing. 3 ug. cr. Survey and practice in producing writing in business settings, technical fields, and scientific disciplines. This course is not a grammar/style review and does not replace English 101, 102, 103 or 099. Memo proposal, summary, and letters commonly needed in business/professions are covered. Prereq.: 34ENGL102.

34ENGL375. Professional Writing and Publication. 3 ug. cr. Students will learn to develop audiences for their writing, geared to either business or professional/creative goals. A portfolio will be developed along with suitable markets to showcase student's polished work, along with a realistic marketing plan or development goals. The student uses the writing course to complete certificate studies and develop toward publishing. Prereq.: 34ENGL102.

FINANCE

34FIN171. Stock Market and Investments. 3 ug. cr. Investment vehicles, market characteristics, investment philosophies. Investing for capital appreciation. Setting, achieving personal investment objectives. QR

34FIN271. Business Finance. 3 ug. cr. Introduction to financial markets and investor behavior. Discussion of various financial analysis techniques; analysis of capital investment projects. Prereq.: 34ACTN102. QR

34FIN281. Personal Finance. 3 ug. cr. Planning and management of personal financial problems; personal finance plans, budgets. Credit and savings institutions in family financing; insurance, real estate, securities investments and estate planning.

34FIN291. Financial Planning - Principles and Practices. 3 ug. cr. Financial Planning for individuals making decisions affecting their personal finances, such as saving, investing and/or borrowing money

to finance real estate acquisitions and automobile lease/purchases. Investments in securities such as government and corporate bonds, common/preferred stocks, warrants and options, unit investment trusts, mutual funds, real estate and tax shelters. Includes measuring risk and return performance, investor suitability and asset allocation. Course is designed to help prepare business professionals for financial and investment counseling and/or financial planners who need to get NASD series 6 and 7 licensed. Prereq.: 34FIN281.

FINE ARTS – ART

SEE ALSO: APPLIED DESIGN, ART EDUCATION & ART HISTORY

34FAA101. Drawing I. 1-2 ug. cr. Study of drawing techniques and media. Basic problems in observation and interpretation of design elements and principles. FA

34FAA102. Drawing II. 1-2 ug. cr. Continuation of Drawing I. Designed to teach students how to draw using a variety of techniques and media built on introductory methods. Students continue with problems highlighting interpretation of design elements and principles. Prereq.: 34FAA101. FA

34FAA103. Drawing III. 1-2 ug. cr. Conclusion of Drawing II. Designed to teach students how to draw using techniques and media already introduced. Further studies in problems highlighting observation and interpretation of design elements and principles. Prereq.: 34FAA102. FA

34FAA107. Ceramics I. 1-2 ug. cr. Introduction to the basic properties of clay. Includes the basic hand building techniques. FA

34FAA108. Ceramics II. 1-2 ug. cr. Continuation and expansion of Ceramics I. The study of the basic properties of clay includes the basic hand building techniques. FA

34FAA109. Ceramics III. 1-2 ug. cr. Continuation of Ceramics I & II with expanded work in the basic properties of clay. Includes the basic hand building techniques. FA

34FAA121. Fundamental Concepts of Art. 3 ug. cr. This course teaches the basic principles of art and design. It is especially developed as a course for those students not majoring in an art field, yet finding themselves working on business projects with visual designers. This course will teach them the art vocabulary and the concepts of art to effectively communicate with visual designers. FA

34FAA122. 2-Dimensional Design. 3 ug. cr. An introduction to the basic concepts of two dimensional design using a digital format including: line, shape, space, size, hue, value, and texture. Use of various software in a variety of problem-solving projects leading toward an awareness of the principles of visual organization. Class will be a combination of lectures, class lab time, discussions and critiques. Prereq.: 34FAA121. FA

34FAA123. Color Composition. 3 ug. cr. This course examines the theory and artistic application of basic color principles through digital media, digital student projects and lecture. Such topics as color relationships, interaction and organization are presented. Each week will consist of a class critique discussion of the previous week's assignment, and lab time to work on the new assignment. Appropriate computer software will be used. Prereq.: 34FAA121. FA

34FAA130. Fundamentals of Computer Graphics. 3 ug. cr. This course will introduce you to the fundamental principles of two-dimensional pixel and vector-based graphics using appropriate graphic design software. It is intended that you will gain a strong foundation in the use and limitations of these digital design tools of Computer Graphics. In addition, you will build upon the principles of design that you are developing in the rest of the program. Prereq.: 34FAA121.

34FAA141. Graphic Design and Typography I. 3 ug. cr. This course will build upon course material learned in Fundamentals of Computer Graphics and introduce students to the field of graphic design and

typography. Many of the principles and elements of design including line, value, color, and shape will be explored through the execution and completion of digital projects that will stress thematic development and problem solving ability relating to real world design assignments. Prereq.: 34FAA121, 34FAA130. FA

34FAA142. Graphic Design and Typography II. 3 ug. cr. This course will build upon course material learned in Graphic Design and Typography I. The principles and elements of graphic design will be explored in depth including line, value, shape, emphasis, and typography through the execution and completion of digital projects that will stress thematic development and problem solving ability relating to real world design assignments. Prereq.: 34FAA141. FA

34FAA171. Fibers: Fabric Design. 3 ug. cr. This course is an introduction to fibers and fabric design including felting, spinning, dying wool and cotton, batik, shibori, photo transfer, printing and embroidery. Students will learn both contemporary and traditional textile processes. FA

34FAA207. Multi-Media Arts and Crafts I. 1-3 ug. cr. Introduction to basic multimedia arts and crafts which may include weaving, sculpting, jewelry techniques, weaving, basketry, paper making, book making or printmaking. Topics may rotate each quarter. FA

34FAA208. Multimedia Arts and Crafts II. 1-3 ug. cr. Introduction to basic multimedia arts and crafts which may include weaving, sculpting, jewelry techniques, weaving, basketry, paper making, book making or printmaking. Topics may rotate each quarter. Prereq.: 34FAA207. FA

34FAA209. Multimedia Arts and Crafts III. 1-3 ug. cr. Introduction to basic multimedia arts and crafts which may include weaving, sculpting, jewelry techniques, weaving, basketry, paper making, book making or printmaking. Topics may rotate each quarter. Prereq.: 34FAA208. FA

34FAA215. Painting I. 1-2 ug. cr. Designed to teach students how to paint using a variety of techniques. Basic problems in observation and interpretation of design elements and principles. FA

34FAA216. Painting II. 1-2 ug. cr. Continuation and expansion of 34FAA215 designed to further teach students how to paint using a variety of techniques. Further study of problems in observation and interpretation of design elements and principles. Prereq.: 34FAA215. FA

34FAA217. Painting III. 1-2 ug. cr. Continuation and expansion of 34FAA216 designed to further teach students how to paint using a variety of techniques. Further study of problems in observation and interpretation of design elements and principles. Prereq.: 34FAA216. FA

34FAA245. 2D Animation. 3 ug. cr. This course will focus on storytelling, developing story boards and animatics. Students will learn narrative, timing, movement, and transitions. A professional approach to drawings that move. Students will bring their individualism and vision to this art form. FA

34FAA246. 3-D Modeling and Animation. 3 ug. cr. Students will follow short tutorials to introduce the principles of computer 3-D modeling, rendering, and animation. Students will produce a short ten second animation by the end of the quarter. They will create and render portfolio quality prints of 3-D projects. Prereq.: Permission of instructor. FA

34FAA271. Film as Art. 3 ug. cr. To introduce students to the language, process, and elements of film as an art form. Films will be shown which portray the beginnings of film-making in this country, as well as the European countries and Japan. Students will gain knowledge and understanding of the origins of different genres of film, both from a technical standpoint and an aesthetic one. FA

34FAA295. Capstone Project. 3 ug. cr. This class is designed to enable students to develop and create their personal project, with the aim of showcasing work oriented to specific interests. They may therefore develop works which were not possible in any other class. A strict timeline and work schedule will be incorporated into this class. (All

projects include a paper identifying and explaining the project's goals, as well as a paper explaining the procedures used in creating the project, progress reports, evaluation and discussion of project at its completion). FA

FINE ARTS - MUSIC

34FAM181. History of the Music of Western Civilization. 3 ug. cr. Listen to and discuss selections from the history of western music: Gregorian chant to the 20th Century, with emphasis upon the Baroque, Classical and Romantic periods. Music theory will be woven in as student ability and interest demand. FA

34FAM271. Special Topics in Music. 1-3 ug. cr. Content varies according to the interests of students and faculty. Credit hours for this course will vary depending on course content. Students should see postings at the originating campus. FA

FRENCH

34FREN101. Basic French I. 5 ug. cr. An intensive course for beginning students: emphasis on listening, speaking, reading, writing, grammar and culture. Successful completion of the three quarters satisfies college language requirements. DC, HU

34FREN102. Basic French II. 5 ug. cr. A continuation of 34FREN101, an intensive course for beginning students: further emphasis on listening, speaking, reading, writing, grammar and culture. Prereq.: 34FREN104. DC, HU

34FREN103. Basic French III. 5 ug. cr. A continuation of 34FREN102. Conclusion of the intensive course for beginning students: emphasis on listening, speaking, reading, writing, grammar and culture. Prereq.: 34FREN105. DC, HU

34FREN111. Extended Basic French I. 3 ug. cr. For beginning students: emphasis on speaking and listening; grammar; culture. Fulfills college language requirement when followed by French 114, 115, 116. HU

34FREN112. Extended Basic French 2. 3 ug. cr. For beginning students: emphasis on speaking and listening, grammar, culture. Fulfills college language requirement when followed by French 114, 115, 116. Prereq.: 34FREN111. DC, HU

34FREN113. Extended Basic French 3. 3 ug. cr. For beginning students: emphasis on speaking and listening, grammar, culture. Fulfills college language requirement when followed by French 114, 115, 116. Prereq.: 34FREN112. DC, HU

34FREN114. Extended Basic French 4. 3 ug. cr. Continuation of 34FREN 111, 112, 113. Emphasis on speaking, listening, grammar and culture. The first offering of a three-part course sequence. Prereq.: 34FREN113. DC, HU

34FREN115. Extended Basic French 5. 3 ug. cr. Continuation of 34FREN 111, 112, 113. Emphasis on speaking, listening, grammar and culture. The second offering of a three-part course sequence. Prereq.: 34FREN114. DC, HU

34FREN116. Extended Basic French 6. 3 ug. cr. Continuation of 34FREN 111, 112, 113. Emphasis on speaking, listening, grammar and culture. The third offering of a three-part course sequence. Prereq.: 34FREN115. DC, HU

34FREN180. World Cultures: French Speaking I. 3 ug. cr. This course will examine French culture with regard to educational, political and social identities in the contemporary era. This course is taught in English. DC, HU

34FREN181. World Cultures: French Speaking II. 3 ug. cr. This course will examine French culture with regard to popular cultural - entertainment media and culinary culture - in the contemporary era. This course is taught in English. DC, HU

GEOGRAPHY

34GEOG101. Physical Geography I. 3 ug. cr. This natural science course examines the fundamentals of atmospheric processes, weather, and world climate classification. Current topics, such as global climate change, ozone depletion and natural weather hazards are addressed. NS

34GEOG102. Physical Geography II. 3 ug. cr. This natural science course focuses on the fundamentals of geology with emphasis on geomorphology and the genesis of landforms. Topics range from plate tectonics to landslide hazards. NS

34GEOG103. Physical Geography III. 3 ug. cr. This natural science course covers world biomes with emphasis on soils and vegetation. The technique and application of remote sensing are introduced. Issues addressed are tropical deforestation, soil erosion, and biodiversity. NS

34GEOG104. People and the Environment I. 3 ug. cr. Introduction to the study of the environment. World population dynamics, ecosystems and the energy of life, the physical environment are discussed; overview of environmental problems, resource conservation. DC, NS

34GEOG105. People and the Environment II. 3 ug. cr. Global warming, deforestation, ozone depletion, and other worldwide environmental concerns addressed; energy, food, plant and animal resources examined; concepts of biodiversity and sustainable resources use are introduced. DC, NS

34GEOG106. People and the Environment III. 3 ug. cr. Pollution of air, water and soil resources; solid and hazardous waste issues; risks and effects to environment and human health; politics, economics and ethics of environmental decision-making; environmental careers. DC, NS

34GEOG111. Physical Geography Laboratory I. 2 ug. cr. This lab accompanies the lecture and gives hands-on experience in weather instrumentation, map reading, earth-sun relationships, and application of atmospheric calculations. Coreq.: 34GEOG101.

34GEOG112. Physical Geography Laboratory II. 2 ug. cr. This lab provides students with examples of the landforms discussed in lecture through the study of aerial photos, satellite images, topographic maps, and local field trips. Field trips include local fossil hunting, rock outcrop exploration, and a survey of landslides. Coreq.: 34GEOG102.

34GEOG113. Physical Geography Laboratory III. 2 ug. cr. This lab session introduces students to the use of the soil survey, basic soil analysis, vegetation surveys and slope profiling. The interpretation of aerial photos and satellite images will accompany the introduction to remote sensing in the lecture course. Coreq.: 34GEOG103.

34GEOG114. People and the Environment Laboratory. 1 ug. cr. A combination of field trips, lab exercises, and videotape sessions are used to demonstrate principles of environmental science. Environmental sampling and pollution effects, ecosystems, energy production, sustainable agriculture and development, industrial technology and the effect of urbanization on the environment are explored. Coreq.: 34GEOG104.

34GEOG121. World Regional Geography I: The Americas. 3 ug. cr. This course examines the Americas (North, Central, and South) from the physical setting to the cultural landscapes. Reading and discussion will emphasize population trends, issues of development and underdevelopment, the physical landscape and its effect on the settlement and growth of regions, the Latin legacy, NAFTA, migration, and ethnic diversity. Map reading skills and general geographic literacy are stressed. DC, SS

34GEOG122. World Regional Geography II: Europe. 3 ug. cr. This course explores Europe (east and west) from a geographical perspective. The course will focus on map reading, and preparation of simple thematic maps, population trends, current dynamics of change, economic development, the geography of language, core regions, and current issues. DC, SS

34GEOG123. World Regional Geography III: Africa. 3 ug. cr. Overview of landscapes and societies of the second largest continent. Political and historical geography of the 20th century to understand regional patterns. Problems of modernization of traditional societies and economics. DC, SS

34GEOG171. Human Geography I. 3 ug. cr. A geographic examination of phenomena that produce distinctive human patterns of movement and of the interdependencies between human populations and the earth's physical processes. Topics include examination of human activities and their impacts on the environment as well as exploration of the growth of human populations and their patterns. Examination of the role of culture in human economic and social development and discussion of the current world in context of models presented. DC, SS

34GEOG172. Human Geography II. 3 ug. cr. Political Geography will be concerned with the following topics: Ancient political imprints on the world; the European nation-state and colonial imprint on the landscape; changing national boundaries; and political patterns and processes. Cultural Geography will focus upon religious and language patterns; ethnic and racial patterns; characteristics of different peoples; and the expression of the built environment. The geography of popular culture and its diffusion. DC, SS

34GEOG173. Human Geography III. 3 ug. cr. Economic Geography examines modes of securing a living. Patterns of agricultural production, industrial production and information processing; process of economic development in both developed and developing countries; the global economy; and the internal economies of countries. Urban geography examines origin and diffusion of human settlements. DC, SS

34GEOG261. Regional Geography of Clermont County. 3 ug. cr. This course will examine the physical environment, the population, the historical development of the county, and economic geography of Clermont County, exploring its changes and growth. Field trips are undertaken to familiarize the student with the physical and cultural geography of Clermont County. NS

GEOLOGY

34GEOL101. Introduction to Geology I. 3 ug. cr. A survey of geological processes and materials, and the development of life as seen through the fossil record. Emphasis is placed on the earth as an evolving, dynamic body from the atomic scale to its place in the solar system. Geologic hazards, environmental problems, and economic geology are discussed. This is the first offering of a three-course sequence. Prereq.: 34MATH133. NS

34GEOL102. Introduction to Geology II. 3 ug. cr. This is a continuation of 34GEOL101 and emphasizes concepts in physical geology at the introductory level. The major emphasis is on geologic concepts and processes related to glaciology and the nature of ice ages; wind erosion and deposition; oceanography; earthquakes and seismology; continental drift and plate tectonics; economic geology; and planetary geology. Prereq.: 34GEOL101. NS

34GEOL103. Introduction to Geology III. 3 ug. cr. Continuation of 34 GEOL 102 and emphasizes concepts in historical geology at the introductory level. Particular attention is given to the nature and measurement of geologic time; geologic evidence of the earth's early history; the nature of the fossil record; and the geological history of North America from the Precambrian to the recent. The historical development of ideas about earth history is also discussed. Prereq.: 34GEOL102. NS

34GEOL111. Geology Laboratory I. 2 ug. cr. Laboratory and field work with maps, rocks, minerals, and fossils. This is the first offering of a three-course sequence. Coreq.: 34GEOL101.

34GEOL112. Geology Laboratory II. 2 ug. cr. Further work from 34GEOL111 with laboratory and field work with maps, rocks, minerals and fossils. This is the second offering of a three-course sequence. Coreq.: 34GEOL102.

34GEOL113. Geology Laboratory III. 2 ug. cr. Further work from 34GEOL103 with emphasis on laboratory and field work with maps, rocks, minerals and fossils. Emphasizes local geological history, stratigraphy, sedimentation and paleontology. This is the third offering of a three-course sequence. Coreq.: 34GEOL103.

34GEOL201. Solid Earth I: Tectonics and Petrology. 3 ug. cr. Introduction to large scale crystal deformation, plate tectonics, structure and petrology of the Earth. Provides an overview of principal tectonic provinces and their associated rocks. Geologic maps and cross-sections are used to relate rocks and minerals to their genesis within the tectonic framework. NS

34GEOL205. Concepts in Historical Geology I: Processes of Earth History. 3 ug. cr. Introduction to the reconstruction of Earth history utilizing principles of geochronology, paleontology, paleoecology, stratigraphy and sedimentation, paleoclimatology, and orogenesis. Philosophy and scientific approach to understanding Earth history is also considered. NS

34GEOL206. Concepts in Historical Geology II: Evolution of the Earth. 3 ug. cr. Survey of the physical and biotic history of the Earth interrelating demonstrable concepts and principles with the Earth's rock and fossil record in order to answer fundamental questions about the evolution of Earth through geologic time and processes, questions so large in scale that they are virtually unfathomable from the perspective of mankind. NS

34GEOL207. Earth Systems Field Trip. 3 ug. cr. Field trip designed to integrate material from historical geology and physical geology, including tectonics, petrology, mineralogy, paleontology and orogenesis while focusing on a specific area. Emphasis is hands-on field observation, data collection and interpretation of Earth history, materials, and processes. Prereq.: 34GEOL205-206. NS

34GEOL299. Independent Study in Geology. 1-3 ug. cr. An individualized program in reading, studying and/or research is developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor. NS

34GEOL362. Geology of the Tri-State. 3 ug. cr. Geology of the Cincinnati area for teachers. Students become familiar with the local geological history, materials and features through lectures and field trips as well as geological maps and literature. NS

GERMAN

34GRMN101. Basic German I. 5 ug. cr. German for beginning students. Emphasis on listening, speaking, reading, writing, grammar, culture. Successful completion of the three quarters satisfies college language requirements. DC, HU

34GRMN102. Basic German II. 5 ug. cr. German for beginning students. Emphasis on listening, speaking, reading, writing, grammar, culture. Successful completion of the three quarters satisfies college language requirements. DC, HU

34GRMN103. Basic German III. 5 ug. cr. German for beginning students. Emphasis on listening, speaking, reading, writing, grammar, culture. Successful completion of the three quarters satisfies college language requirements. DC, HU

34GRMN104. Elementary Intensive German I. 5 ug. cr. German for beginning students. Emphasis on listening, speaking, reading, writing, grammar, culture. Successful completion of the three quarters satisfies college language requirements. DC, HU

34GRMN105. Elementary Intensive German II. 5 ug. cr. A continuation of 34GRMN104. An intensive course for beginning students: emphasis on listening, speaking, writing, grammar and culture. Prereq.: 34GRMN104. DC, HU

34GRMN106. Elementary Intensive German III. 5 ug. cr. Continuation of 34GRMN105. An intensive course for beginning students: emphasis on listening, speaking, reading, writing, grammar and culture. Prereq.: 34GRMN105. DC, HU

34GRMN299. Independent Study in German. 1-3 ug. cr. This course is designed for students who like to study aspects of German beyond the elementary sequence. Prereq.: Permission of instructor.

HEALTH CARE MANAGEMENT

SEE ALSO: OFFICE ADMINISTRATION TECHNOLOGY

34HCMT181. Introduction to Health Care Systems. 3 ug. cr. Topics covered will include history and orientation to the U.S. health care delivery system clinics, hospitals, nursing homes and related health care facilities including health care planning, regulation, quality and politics; comparative health systems and other major issues. Prereq.: 34HCMT171.

34HCMT271. Medical Ethics and Legal Issues. 3 ug. cr. Discussion and case review of ethical and legal issues in the medical business environment. Prereq.: 34HCMT171. SE

HEALTH, FITNESS & LEISURE

34HFL153. Physical Conditioning. 1 ug. cr. Basic skills for improving cardiovascular fitness, strength and flexibility.

HISTORY

SEE ALSO: ART HISTORY

34HIST101. History of Western Civilization I. 3 ug. cr. Survey of Western civilizations and institutions from pre-historic times; political and economic developments; arts, sciences, and religion. HP

34HIST102. History of Western Civilization II. 3 ug. cr. Survey of Western Civilization and institutions from the end of the Middle Ages to the Napoleonic Wars. Political and economic developments; arts, sciences, and religion. HP

34HIST103. History of Western Civilization III. 3 ug. cr. Study of the period from the Industrial Revolution to the present. Emphasizes the 19th and 20th centuries and the changes in economic, political and social spheres. HP

34HIST110. American History to 1820. 3 ug. cr. The major social, political and economic development of the United States to 1820. HP

34HIST111. American History 1820 - 1920. 3 ug. cr. The major social, political and economic development of the United States from 1820 to 1920. HP

34HIST112. American History Since 1920. 3 ug. cr. The major social, political and economic development of the United States since 1920. HP

34HIST113. European Civilization 1000-1500. 3 ug. cr. Transition from Medieval Europe in 1000 to the Early Modern period in 1500. Topics are the common people, Black Death, the Church, Renaissance, and formation of European states. HP

34HIST114. European Civilization 1500-1800. 3 ug. cr. Transition from Early Modern Period to the Modern Period. Topics are the Reformation, State Building, Scientific Revolution, Enlightenment, and the Industrial Revolution. HP

34HIST115. European Civilization 1800 to Present. 3 ug. cr. The modern period from 1800. Topics are Reform, Revolution, Rationalism in 1800s, World War I, the Depression, rise of totalitarian governments, World War II, and the Cold War. HP

34HIST121. World History: World Forming. 3 ug. cr. A survey of world history from the development of separate civilizations to the postclassical era. DC, HP

34HIST122. World History: Worlds Connecting. 3 ug. cr. A survey of world history from 1450 - 1750. DC, HP

34HIST123. World History: Worlds Interacting. 3 ug. cr. A survey of world history from 1750 - present. DC, HP

34HIST191. Survey of the History of Science. 3 ug. cr. Survey some of the highlights in the evolution of Western science from Greeks to present. Emphasis placed on scientific philosophies, discoveries, and influences of Aristotle, Copernicus, Galileo, Descartes, Newton and Harvey. Readings in the physical and biological science will be primarily philosophical rather than technical or mathematical. HU

34HIST201. Africa: From Antiquity to 1400. 3 ug. cr. This course is designed to introduce students to the earliest history of the continent of Africa, its diversity, some of its social, political, and economic developments. DC, HP

34HIST202. Africa: From 1400 to 1935. 3 ug. cr. This is the second sequence in a three part course. It is designed to introduce students to the history of the continent of Africa beginning immediately prior to the period in European history known as the Age of Discovery. This is the period in which Africa south of the Sahara for the first time came into contact with Europe, culminating in the colonization of the entire continent. DC, HP

34HIST203. Africa: From 1935 to Present. 3 ug. cr. This is the third sequence in a three part course in African History. It is designed to introduce students to the history of the continent of Africa from the eve of World War I to the present. A major part of this course deals with the process of decolonization and the challenges of post-independence Africa. DC, HP

34HIST270. Royal Divorces and Burnings. 3 ug. cr. The time period when England changes from a medieval kingdom to a modern nation. Exploration and later colonies in North America. Topics include wives of Henry VIII, executions of Mary, and the stability and cult of Elizabeth I. HP, SE

34HIST271. Plagues and Witches. 3 ug. cr. Social history of lowest levels of medieval society and how they lived and survived under control of the nobility and church. Devastation of the Black Death and the social upheaval of the witch hunts. HP, SE

34HIST272. Saints and Sinners. 3 ug. cr. Outline of Christianity up to 1400's and causes of the Protestant Reformations of the early 1500's and the Catholic Reformation at mid-century. HP, SE

34HIST273. American History, 1960 to the Present. 3 ug. cr. This course examines the peaks and valleys of American history from 1960 to the present, including Vietnam, the civil rights movement, Watergate and the Great Society. HP

34HIST274. The American Civil War. 3 ug. cr. This course will examine the causes of the Civil War, the battles and campaigns, the era's major personalities, the role of the common soldier, major political events and the role of the African-American soldier. The course will contain many examples from Southwest Ohio. DC, HP

34HIST275. Terrorism: History and Philosophy I. 3 ug. cr. The student will be introduced to an advanced understanding of terrorism, particularly the historical beginnings and underpinnings of current terrorist groups and philosophies. We will study the ways in which terrorist groups evolve, sometimes from legitimate dissident organizations, and how individuals find their way into violence as a solution to political problems. HP

34HIST276. Terrorism: History and Philosophy II. 3 ug. cr. The student will be introduced to an advanced understanding of terrorism, its workings and those who perpetrate the terrorist acts. We will explore major threat groups (Islamic radical fundamentalists, American right-wing paramilitaries, etc.) and how they have and will affect our way of life. In addition, we will discover the weapons and means the modern terrorist uses. Prereq.: 34HIST275. HP

34HIST281. Hollywood Goes To War. 3 ug. cr. A course designed to examine the Second World War through films of that period, juxtaposed with examinations of that epoch by contemporary filmmakers. HP, SE

34HIST282. Surviving Revolutions. 3 ug. cr. Identify and study tensions that build to active revolution when a triggering event occurs. Then tracing the changing phases-some violent-within the revolution after it is successful. Final activity is a return to a stable and similar type government to the original. Studied will be the revolutions of England, American, French and Russia. HP, SE

34HIST299. Special Topics in History. 3 ug. cr. This course designation allows special courses suited to student needs and faculty interests to be introduced. HP

34HIST301. World War I and the Homefront. 3 ug. cr. Currently the course focuses exclusively on the American Homefront during WW I. HP

34HIST302. World War II. 3 ug. cr. This course will examine the major events and influences which led to war, how the war was fought, its impact socially, economically and politically and its aftermath. This course will enable students develop needed skills in all four baccalaureate competencies as defined by the general education program. The lectures and readings are designed to not only enhance the student's knowledge and understanding of the war, but also to place the events in historical perspective and see the impact it had on various peoples and nations. The homework assignment is designed to help them sharpen their powers of critical analysis and begin to formulate their own historical paradigm regarding World War II and its impact on the United States and the world at large. HP, SE

34HIST317. Slavery in America 1619 - 1865. 3 ug. cr. This course will examine the origins and development of race based chattel slavery in British North America and the United States, the impact of the institution on Africans and African-Americans, the rise of the abolitionist movement, the political consequences of slavery, and its eventual demise in the United States and the western Hemisphere. Prereq.: 34ENGL103. HP

34HIST340. History of the Civil Rights Movement. 3 ug. cr. This course will examine the struggle of African-Americans (and their white allies) to achieve equality and civil rights from the beginning of the Jim Crow era, through the present, with emphasis on the classic civil rights movement from 1959-1968.

34HIST374. The American Experience in Vietnam. 3 ug. cr. This course will examine all major aspects of the American experience in Vietnam beginning with initial involvement during the early years of the Cold War, direct American intervention and escalation of the war, its impact on American culture and society, de-escalation and Peace with Honor and the legacy of the war. HP

34HIST381. The Holocaust. 3 ug. cr. The goal of this course is to examine the causes, events and consequences of the destruction of European Jewry during World War II, an event known historically as the Holocaust. Although the class will focus primarily on events and issues that occurred during the Nazi era (1933-45), a certain amount of background on such issues as the long history of Anti-Semitism (defined as hatred of Jews), and the circumstances that led to the ascendance of Hitler and his Nazi party is necessary. Prereq.: 34HIST115. HP, SE

HUMAN SOCIAL SERVICES TECHNOLOGY

34HSST144. Introduction to Horticulture Therapy. 3 ug. cr. An introduction to the use of horticulture as a therapeutic tool to improve the quality of life of persons with physical or psychological challenges and others with special needs.

34HSST145. Horticulture Therapy Programming. 3 ug. cr. Students will learn the characteristics of specific dexterities and how to plan and implement appropriate horticulture therapy programming.

34HSST146. Herbs for Culinary and Healing Uses. 3 ug. cr. This course addresses the history and use of herbs in the following areas: culinary, health/healing and aromatherapy.

34HSST172. Group Theories for Human/Social Services. 3 ug. cr. Designed to provide students with knowledge and skills of small group dynamics, types of groups, stages of group development, and leadership strategies.

34HSST173. Social Welfare and Contemporary Issues. 3 ug. cr. An introduction to social welfare programs, policies, and history as related to human values and direct practice in contemporary society; prominent social problems; social services. Prereq.: 34HSST177. SE

34HSST174. Activities Therapy. 3 ug. cr. Designed to provide students with skills to develop activity programs - art, music, recreation and socialization modalities for a variety of differing populations.

34HSST175. Social Work with the Aging. 3 ug. cr. This course makes use of specialized knowledge about aging; issues of social policy and practice relating to the elderly in American society. Social services studies are: treatment, adjustment, protective and family issues.

34HSST176. Resources for Human/Social Services. 3 ug. cr. Designed to provide the student with knowledge of the resources within the clients' environment. Focus on assessment of needs, use of existing resources, and development and networking of new resources.

34HSST177. Introduction to Social Services/Helping Profession. 3 ug. cr. Introduction to the helping profession, including human services and social work. History of the helping professions, roles of workers, overview of the training process. DC, SE

34HSST183. Current Issues in Human/Social Services. 3 ug. cr. This course will cover issues in Human and Social Services. Topics include child care, substance abuse, mental retardation, and mental health. Prereq.: Permission of instructor. SE

34HSST185. Introduction to the Field of Mental Retardation. 3 ug. cr. Introduction to the Field of Mental Retardation: This course focuses on the nature and needs of individuals of moderate, severe, or profound mental retardation.

34HSST204. Human/Social Services Seminar I. 2 ug. cr. Designed to accompany Human/Social Services Practicum I and offer opportunity to discuss practicum experience. Discussion of agency structure and processes, and issues in helping and application of skills. Prereq.: 34HSST177, 34HSST241. Coreq.: 34HSST214.

34HSST205. Human/Social Services Seminar II. 2 ug. cr. Designed to accompany Human/Social Services Practicum II and offer an opportunity to discuss practicum experiences. Discussion of developing personal values and attitudes as a helper, as well as expanded skill application processes. Coreq.: 34HSST215.

34HSST206. Human/Social Services Seminar III. 2 ug. cr. Designed to accompany Human/Social Services Practicum III and offer an opportunity to discuss practicum experiences. Focus on contemporary ethical and legal issues, as well as expanded skill application processes. Coreq.: 34HSST216.

34HSST207. Human/Social Services Seminar IV. 2 ug. cr. Designed to accompany Human/Social Services Practicum IV and offer an opportunity to discuss practicum experiences. Discussion of issues in specific helping areas, as well as expanded skill application processes. Prereq.: 34HSST206. Coreq.: 34HSST217.

34HSST214. Human/Social Services Practicum I. 2 ug. cr. Designed to provide student with introductory experience to human service agency workers and practices. Opportunity to become acquainted with agency settings, procedures. Beginning application of helping skills under supervision. Students are expected to be in the field for 140 hours during the quarter. Prereq.: 34HSST177, 34HSST241. Coreq.: 34HSST204.

34HSST215. Human/Social Services Practicum II. 2 ug. cr. Designed to provide students with a field experience in which to apply individual and group helping skills. Opportunity to expand skills to differing populations in supervised situations. Students are expected to be in the field for 140 hours during the quarter. Coreq.: 34HSST205.

34HSST216. Human/Social Services Practicum III. 2 ug. cr. Designed to provide students with a field experience in which to apply group and community helping skills. Opportunity to expand skills to differing populations in supervised situation. Students are expected to be in the field for 140 hours during the quarter. Coreq.: 34HSST206.

34HSST217. Human/Social Services Practicum IV. 2 ug. cr. Designed to provide students with a field experience in a preferred career area. Opportunity to expand all skills in a supervised setting. Students are expected to be in the field for 140 hours during the quarter. Coreq.: 34HSST207.

34HSST241. Communication for Profession Services I. 3 ug. cr. Strategies and techniques for social and psychological intervention, basic helping skills, and development of interviewing skills. DC

34HSST242. Communication for Profession Services II. 3 ug. cr. Strategies and techniques for social and psychological intervention, including a survey of human development, family assessment, and a review of other counseling techniques at beginning level. Prereq.: 34HSST241. DC

34HSST244. Horticulture Therapy Outdoor Techniques. 3 ug. cr. An introduction to the knowledge and skills of using an outdoor environment in a Horticulture Therapy program. Prereq.: 34HSST144.

34HSST245. Horticulture Therapy Indoor Techniques. 3 ug. cr. An introduction to the knowledge and skills of using a greenhouse or indoor environment in a Horticulture Therapy program. Prereq.: 34HSST144

34HSST271. Crisis Intervention. 3 ug. cr. Designed to provide student with skills intervening in physical, emotional, or intellectual crises, including such areas as suicide, domestic violence, substance abuse, community disaster, medical emergencies, death/loss. SE

34HSST272. Health and Aging. 3 ug. cr. Course examines psychological, biological, and social factors affecting health/mental health of aging. DC

34HSST273. Community Mental Health. 3 ug. cr. Designed to provide the student with basic skills for the prevention of mental illness and the promotion of mental health. Focus on development of community education programs, and group presentations and workshops.

34HSST275. Contemporary Issues for Human/Social Services. 3 ug. cr. Focus on evaluation of competence, career development, and contemporary and legal issues for human service workers. SE

34HSST276. Chemical Dependency and the Family. 3 ug. cr. Course focuses on chemical dependency effects on the family system. SE

34HSST277. Environmental Management for Human/Social Services. 3 ug. cr. Course focuses on impact of environment upon mental health. SE

34HSST284. Case Management. 3 ug. cr. Course is designed for students planning to work with clients requiring case management services. SE

34HSST286. Assessment and Treatment Planning for Families. 3 ug. cr. This course is designed to increase the student's knowledge of home-based and family-centered strategies. Through lectures, role plays, and in-home assignments students will learn family assessment techniques, family intervention strategies, and methods for teaching families new skills. Prereq.: 34HSST241.

34HSST299. Independent Study in Social Services. 1-3 ug. cr. Individualized program in reading, studying, and/or research developed jointly by the student and instructor. Prereq.: Permission of instructor.

LATIN

34LATN101. Elementary Latin I. 3 ug. cr. An introduction to Latin grammar and the reading of simple prose. In addition, Roman society and culture will be discussed. DC, HU

34LATN102. Elementary Latin II. 3 ug. cr. A continuation of an introduction to Latin grammar and the reading of simple prose. In addition, Roman mythology will be discussed. The second offering in a three-part course sequence. Prereq.: 34LATN101. DC, HU

34LATN103. Elementary Latin III. 3 ug. cr. A continuation of an introduction to Latin Grammar and the reading of simple prose. In addition, Roman government and politics will be discussed. The third offering in a three part course sequence. Prereq.: 34LATN102. DC, HU

34LATN104. Intensive Elementary Latin I. 5 ug. cr. This course is an intensive introduction to Latin grammar and the reading of simple prose. In addition, Roman mythology will be discussed. This is the first offering in a three-part course sequence. DC, HU

34LATN105. Intensive Elementary Latin II. 5 ug. cr. This course is an intensive introduction to Latin grammar and the reading of simple prose. In addition, Roman government and politics will be discussed. This is the second offering in a three-part course sequence. Prereq.: 34LATN104. DC, HU

34LATN106. Intensive Elementary Latin III. 5 ug. cr. An intensive review of basic Latin, combined with advance grammar. In addition, Roman contact outside Italy will be discussed. This is the third offering in a three-part course sequence. Prereq.: 34LATN105. DC, HU

34LATN211. Intermediate Latin I. 3 ug. cr. An intensive review of basic Latin, combined with advanced grammar. In addition, Roman contact outside of Italy will be discussed. Prereq.: 34LATN103. DC, HU

34LATN212. Intermediate Latin II. 3 ug. cr. An intensive review of basic Latin, combined with advanced grammar. In addition, authentic Latin prose selections will be read. The second offering in a three part course sequence. Prereq.: 34LATN211. DC, HU

34LATN213. Intermediate Latin III. 3 ug. cr. An intensive review of basic Latin, combined with advanced grammar. In addition, authentic Latin poetry selections will be read. The third offering in a three part course sequence. Prereq.: 34LATN212. DC, HU

LEGAL ASSISTING TECHNOLOGY

34LGTN180. Introduction to Paralegal Profession. 3 ug. cr. Overview of legal assisting profession. Examines legal and paralegal ethics and unauthorized practice of law problems related to the practice of law; interviewing and oral advocacy and law office computer applications.

34LGTN181. Law Office Technology. 3 ug. cr. This course explores the importance of technology in the practice of law. Students will use a variety of computer tools available to assist the legal professionals in

the performance of daily tasks. Hands-on instruction in our computer classroom allows the student to explore many of the software packages commonly used in the legal community. Strong emphasis is also placed on case management software, scanning and optical character recognition and the Internet as a tool for the paralegal.

34LGTN241. Estates and Probate I. 3 ug. cr. An introduction to basic wills and trusts concepts and an examination of the law and procedure of preparing wills, administration of estates and general probate procedure. The drafting of wills and trusts, preparation of probate documents, filing procedures, accounting and closing procedures will be examined. Prereq.: 34LGTN260.

34LGTN251. Family Law. 3 ug. cr. A survey course on family law and the paralegal's role in the practice of family law. Topics to be covered will include separation, marriage settlement agreements, dissolution of marriage, child custody, spousal support, parental rights, surrogate birth, domestic violence, etc. The student will learn the process of handling a dissolution case from start to finish including drafting of various documents. Prereq.: 34LGTN181.

34LGTN252. Contract Law. 3 ug. cr. Contracts and Uniform Commercial Code. Law of negotiated obligations with emphasis on legal, economic, and social reasons for contract rules.

34LGTN256. Litigation I: Civil Procedures I. 3 ug. cr. Federal and Ohio rules of civil procedures. Process of a civil suit from the initial pleadings through its completion. Prereq.: 34LGTN260.

34LGTN257. Litigation II: Civil Procedures II. 3 ug. cr. This course has the students learning the various components of the civil trial process, and the paralegal's role in that process, in a hands-on, skills-based approach. Students will apply Ohio's Rules of Evidence, in a series of exercises and projects; topics will include identifying and preparing exhibits; preparing evidence and subpoenas. The students will learn how to prepare a trial notebook, digest deposition transcripts, and help prepare witnesses to testify. Prereq.: 34LGTN256.

34LGTN260. Basic Legal Principles. 3 ug. cr. Processes of legal reasoning through studying four substantive areas of law affecting business: criminal law, contracts, real property and torts. Uses the case analysis approach to learning the law.

34LGTN261. Legal Research I. 3 ug. cr. Provides the student with an understanding of the law library as well as the use, organization, and inter relationships of the various legal research tools. Skill in researching various legal problems is provided. Prereq.: 34LGTN260.

34LGTN262. Legal Research II. 3 ug. cr. Clear, concise legal writing style is developed. Students apply basic research skills learned in Legal Research I. Drafting of legal memorandums and legal briefs is emphasized. Students also will learn to draft letters, opinions, and study computer-aided research. Prereq.: 34LGTN261.

34LGTN263. Torts: Personal Injury Law. 3 ug. cr. This course is an overview of tort law, designed to introduce the student to the fundamental concepts and principles of personal injury law. There is considerable discussion on the role of the paralegal in this area of law. Prereq.: 34LGTN181.

34LGTN270. Tax Law for Paralegals. 3 ug. cr. Theory and practice of local, state, and federal income taxation, does not include corporate income tax. Prereq.: 34LGTN260.

34LGTN271. Bankruptcy and Debt Collection. 3 ug. cr. The study of the principles of consumer bankruptcy and the collection of debts and judgments. Prereq.: 34LGTN260.

34LGTN272. Administrative Litigation. 3 ug. cr. Prepares the legal assistant to advise and represent clients as permitted by the various state and federal administrative agencies. Preparation of documents, preparation of clients and witnesses as well as oral advocacy before these agencies. Particular emphasis is placed on Social Security, Immigration and Worker Compensation. Prereq.: Permission of instructor.

34LGTN273. Elder Law. 3 ug. cr. Elder Law is the study of medical, social, financial and legal issues related with aging. The course will introduce the student to advance directives, wills, guardianships, patients' rights in health care decision making, entitlement programs, managed care and long-term care insurance, living facilities for the elderly, financial planning, social security, elder abuse, and resources for the elder law team.

34LGTN274. Criminal Law. 3 ug. cr. This course introduces the student to the basic principles of criminal law, plus an analysis of the elements of the most common criminal offenses, as defined by Ohio law. The course details specific requirements regarding evidence and fundamental individual constitutional protections. Prereq.: 34LGTN260.

34LGTN275. Corporate Law and Business Organizations. 3 ug. cr. Various forms of business entities designed to acquaint the student with their formal structure, processes, and operations. Prereq.: 34LGTN260.

34LGTN277. Labor Law for Paralegals. 3 ug. cr. A study of the history, philosophy and principles of the American labor movement. The content of the course will include the basic principles of the National Labor Relations Act, collective bargaining process, labor arbitration, ERISA, Title VII and other statutes. Prereq.: 34LGTN260.

34LGTN279. Intellectual Property. 3 ug. cr. This course will teach the fundamentals of intellectual property law, with emphasis placed on the typical functions of paralegals. SE

34LGTN280. Real Estate Law for Paralegals I. 3 ug. cr. In-depth study of real property including the types of real estate transactions and conveyances such as deeds, contracts, leases, etc. Emphasizes problems encountered in drafting these conveyances. Prereq.: 34LGTN260.

34LGTN290. Paralegal Practicum. 3 ug. cr. The student will gain practical supervised experiences as a paralegal prior to seeking employment in law or law-related office. Students must meet with the program director six weeks before the beginning of the quarter in which they intend to take the practicum course and provide a resume. Prereq.: 34LGTN257, 34LGTN262.

MANAGEMENT

34MGMT261. Quality Management Theory and Structure. 3 ug. cr. An introduction to the philosophical foundations of quality management and the organizational structure and design necessary for implementation.

34MGMT262. Management Team Tools. 3 ug. cr. Presentation and application of the group tools used by teams in quality management problem-solving process.

34MGMT264. Management Numerical Tools. 3 ug. cr. Presentation and application of the numerical tools used by teams in the quality problem solving process. QR

34MGMT266. Management Creativity Tools. 3 ug. cr. A working knowledge of the management (creativity) quality tools in total quality management problem solving teams.

34MGMT271. Principles of Management. 3 ug. cr. An introduction to theories and techniques of management. An overview of managerial functions, communication and group theories.

34MGMT272. Human Resources Management. 3 ug. cr. An introduction to personnel concepts, issues and functions. Functions include, recruitment selection and EEO/Affirmative Action.

34MGMT273. Human Resource Management II. 3 ug. cr. An introduction to human resource management concepts, issues and functions. Specifically, the concepts and functions of performance appraisals, reward systems, employee benefits, unions, collective bargaining and employee relations.

34MGMT274. Quality Teams and Facilitation. 3 ug. cr. An introduction to the role and functioning of problem-solving and self-directed work teams and the behavioral and function of the facilitation role in team process.

34MGMT275. Human Relations in Management. 3 ug. cr. Working with people to reach organizational goals, analysis of reactions and interactions within the work environment, and motivations and influences on goal-oriented behavior.

34MGMT276. Leadership. 3 ug. cr. This course will examine leadership and its impacts on organizations and society. We will explore the role of leadership, the practice of leadership and the skills of leadership. In addition, we will investigate the leadership literature to explore the research available on different types of leadership.

34MGMT277. Customer Satisfaction Measurement. 3 ug. cr. Study of the operation of a customer satisfaction measurement and management program. Design of data collection instruments is included. QR

34MGMT284. Training and Development. 3 ug. cr. Advanced study of human resource management functions of employee training and development. Topics include training needs analysis, training program design, facilitation and implementation as well as cost analysis.

MANUFACTURING ENGINEERING TECHNOLOGY

34MFTN131. Principles of Joining. 2 ug. cr. The objective of the course is to give student the ability to choose and apply feasible joining processes. The course covers basic material science including grid and grain structures, hardness, stress-strain curves and phase diagrams, together with joining processes such as SMA-welding, MIG-welding, TIG-welding, gas welding soldering, spot-welding riveting and gluing. Coreq.: 32MFTN141.

34MFTN132. Principles of Machining. 2 ug. cr. The objective of the course is to give the student the ability to choose and apply feasible machining principles. The course discusses material characteristics related to machinability, tool materials and machining parameter calculations, covering methods, such as turning, milling, drilling, broaching, grinding, honing and lapping. The course additionally gives an overview of machining economy, automation and nontraditional machining methods. Coreq.: 32MFTN142.

34MFTN133. Principles of Casting and Forming. 2 ug. cr. The objective of the course is to give the student the ability to select and apply appropriate manufacturing methods for parts having modest accuracy requirements. The course reinforces material science associated with solidifying and heat treatment. Various state-of-the-art casting, forging, forming, stamping, piercing and bending, methods are analyzed both from a manufacturing and from a design perspective. Coreq.: 32MFTN143.

34MFTN141. Principles of Joining Laboratory. 1 ug. cr. The object of the course is to make the students familiar with basic joining operations on a hands-on level. The laboratory assignments cover SMW-welding, MIG-welding, TIG-welding, spot-welding, oxy-fuel welding, and brazing. Coreq.: 34MFTN131.

34MFTN142. Principles of Machining Laboratory. 1 ug. cr. The objective of the course is to make students familiar with elementary machining on a hands-on level. The project assignments include turning, milling, tapping, grinding, alignment, and basic metrology. Coreq.: 34MFTN132.

34MFTN143. CAM-Applications Laboratory. 1 ug. cr. The objective of the course is to make the student familiar with the hands-on use of computer aided manufacturing tools in the machining of various three dimensional shapes. The projects give an introduction to commercial state-of-the-art CAM-packages, and gives an ability to revise programs based on ISO standardized G and M codes. Additionally, the course demonstrates the application of CAM in the manufacture of elementary castings. Coreq.: 34MFTN133.

34MFTN171. Introduction to Computer Integrated Manufacturing. 3 ug. cr. As an introduction to CIM, course work covers components needed to facilitate manufacturing processes controlled by computers. Overview of production processes needed, equipment required, control functions, management and applications. Including subjects such as robotics, CAD, CAM, CNC, quality control, management, plant layout and integration.

34MFTN173. Metrology and Inspection. 3 ug. cr. This course familiarizes the student with instruments used to measure. Inspections processes and techniques are demonstrated and taught. The student uses common as well as specialized items of metrology to verify part correctness. Tolerances and their applications for accuracy are realized as students use state-of-the-art equipment to do real world inspecting. Topics include National Standards, Accuracy fundamentals, Coordinate measuring machines (CMM) and the cost of production without inspection.

34MFTN174. Fluid and Air Power. 3 ug. cr. Students will experience hands-on learning coupled with theory to investigate the world of hydraulics and pneumatics. The student will utilize trainers for the particular power they are assigned. The course includes projects and research in application of fluid and air power sources. Topics include flow meters: manual, solenoid, air piloted; flow control valves for air: manual direction control, check, needle; and flow control valves for hydraulics. Also hydraulic and pneumatic symbols and schematics, resistance in pipes, vacuums and venturies, contamination and filters.

34MFTN175. Industrial Electronics I. 4 ug. cr. An investigation of industrial electronics topics such as DC and AC motors, feedback systems, servomechanisms, motor control systems, transducers and telemetry. Prereq.: 34ELTN102. Coreq.: 34MATH173.

34MFTN176. Industrial Electronics II. 4 ug. cr. An investigation of industrial electronics topics such as final correcting devices and amplifiers, wound-rotor DC motors, nontraditional DC motors, closed-loop industrial systems, motor speed-control systems, and closed-loop control with a real-time microcomputer.

34MFTN179. Introduction to Lean Manufacturing. 3 ug. cr. Students will be introduced to the principles related to lean manufacturing, including examining the current state of a business, systems of lean, tools and best practices, and acquiring the data needed for the components of lean: value stream mapping, workplace organization, predictability & consistency, set-up reduction, TPM, visual factory, support processes and continuous improvement. Coreq.: 34MATH147.

34MFTN241. Materials Science I. 4 ug. cr. Properties of engineering materials, atomic bonding, thermal stress, metal alloys, deformation of metals, cold working annealing, polymers and ceramic materials.

34MFTN271. Advanced Computer Integrated Manufacturing. 3 ug. cr. Coursework includes in depth continuation of CIM I. Covers applications of processes and procedures, designing of CIM systems, problem solving and plant layout. Special projects are assigned that require the student to integrate electrical, mechanical, computers and manufacturing processes to improve production and reduce costs. Topics include rapid prototyping, metrology, nanotechnology, controls and human elements. Prereq.: 34MFTN171.

34MFTN273. Rapid Prototyping. 3 ug. cr. This course is part of the summation of the students experience in CAD/CAM and CIM, allowing them to design a part and then to make a prototype of it. The student

will encounter the various methodology used to make prototypes and understand the processes and techniques required. Industry uses rapid prototyping methods to get products to the manufacturing line as quickly as possible. Students will experience real world scenarios introduced as problems. Prereq.: 34EGTN182.

34MFTN274. Robotics in Industry. 3 ug. cr. In this cutting edge technology course, students learn the applications of robots today, not only in manufacturing but also in medical and science applications. They are exposed to the latest methods of programming robots and the process of designing them. Students are presented various project problems and will solve them. Coursework includes work on real robots and safety measures needed when using robots.

34MFTN276. Plant Layout. 3 ug. cr. Course introduces students to considerations for plant layout. Students will design various types of plants to accommodate production. Practical plant layout is used in developing CIM systems. Topics include locations selections, machine footprint, lighting, floor structure, beam considerations, crane function and location, and parking. Prereq.: 34EGTN182.

34MFTN279. Concurrent Engineering. 3 ug. cr. Coursework covers methodology used in cooperatively engaging various engineering disciplines to produce products. Students will be exposed to several ways of accomplishing teamwork in product design on multi-component assemblies. The student will also study the effects concurrent engineering has on production. Problem solving skills are developed using hands-on methods to simulate real engineering scenarios. Prereq.: 34EGTN182, 34MFTN132, 34MFTN142, 34MFTN171. Coreq.: 34EGTN231.

MARKETING

34MKTG171. Personal Selling and Sales Management. 3 ug. cr. The fundamentals of personal selling; customer relationship management; job analysis and specification; the process of selecting, training, compensating and supervising salespeople; discussion of the problems and methods; and the organization and administration of sales departments and territories.

34MKTG233. Marketing Work Experience and Seminar III. 3 ug. cr. Work experience and seminar in marketing technology. Prereq.: 34PD171.

34MKTG234. Marketing Work Experience and Seminar IV. 3 ug. cr. Work experience and seminar in marketing technology. Prereq.: 34PD171.

34MKTG241. Principles of Marketing I. 3 ug. cr. Fundamentals of marketing structures, channels and environments; buyer and seller behavior; marketing management of product planning, pricing, distribution, and promotion.

34MKTG242. Principles of Marketing II. 3 ug. cr. A continuation of Principles of Marketing I. Topics include international marketing, market channels, wholesaling, retailing, distribution, promotion, advertising and selling; market planning and control. Prereq.: 34MKTG241.

34MKTG245. Principles of Advertising and Promotion. 3 ug. cr. A broad overview of consumer advertising and promotion and their function as dynamic elements of integrated marketing communications and the marketing process.

34MKTG246. Principles of Advertising II. 3 ug. cr. Discussion of various advertising media. A project will consist of development of appropriate advertisement for various media. Prereq.: 34MKTG245.

34MKTG271. Advertising Copywriting. 3 ug. cr. Development of the advertisement from conceptualization to final copy and production. Prereq.: 34MKTG246.

34MKTG281. Principles of Retailing. 3 ug. cr. In-depth study of retailing principles including customer needs, types of retail operations, selling channels, customer buying behavior, development of retail marketing strategy, merchandise assortments, basic sales forecasting and general retail store management. Prereq.: 34MKTG242.

34MKTG282. Service Management. 3 ug. cr. The management of marketing variables within service oriented organizations is emphasized. Specific attention will be given to supply chain and brand management. The globalization of services will also be addressed. Prereq.: 34MKTG242, 34MKTG245.

MATHEMATICS

34MATH099. Arithmetic Review. 1 ug. cr. Individualized study in a formal setting. Review of whole numbers, fractions, decimals, percents, ratios. Coreq.: 34MATH132.

34MATH104. Preparatory Mathematics. 3 ug. cr. A review of the arithmetic operations involving whole numbers, fractions, decimals, percents and signed numbers; Measurement problems are included. Problem solving is emphasized.

34MATH114. Applied Business Mathematics. 3 ug. cr. Review of fractions, decimals, percents, retail mathematics and finance mathematics.

34MATH132. Introductory Algebra I. 3 ug. cr. A review of high school algebra. Topics include signed numbers, factoring, graphing, exponents, radicals, simplifying algebraic expressions and linear equations.

34MATH133. Introductory Algebra II. 3 ug. cr. Further topics from high school algebra, including systems of equations, quadratic equations and word problems. Prereq.: 34MATH132.

34MATH134. Intermediate Algebra. 3 ug. cr. Properties of real numbers, fractional exponents, radicals, complex numbers, relations, functions, logarithms, right triangle trigonometry and applications. Prereq.: 34MATH133.

34MATH136. Math for the Behavioral Sciences and Computers I. 3 ug. cr. Set theory, Venn diagrams, logic, truth tables, Boolean algebra, number theory and matrices. Prereq.: 34MATH132. QR

34MATH137. Math for the Behavioral Sciences and Computers II. 3 ug. cr. Counting theory, probability and applications statistics and applications. Prereq.: 34MATH132. QR

34MATH138. Math for the Behavioral Sciences and Computers III. 3 ug. cr. Systems of inequalities, linear programming, simplex method, variations and applications. Prereq.: 34MATH137. QR

34MATH144. Math for Allied Health Professionals. 3 ug. cr. An applied mathematics course for allied health professions. Topics include a review of fractions, decimals, and percentages; metric system; ratios; proportions; unit conversions; algebraic manipulation of formulas; graphing; and introduction to statistics. Prereq.: 34MATH104.

34MATH146. Statistics for Health Sciences. 3 ug. cr. The concepts of statistical models and inference applied to problems in the health sciences. Major emphasis on the role that statistics plays in health sciences, with the aim of giving the student an understanding of and confidence in the use of statistical techniques. Prereq.: 34MATH133. QR

34MATH147. Elementary Probability and Statistics I. 3 ug. cr. Understanding data: distributions and graphs. Summarizing data, normal distribution, scatterplots, categorical data, designing samples and experiments, probability. Prereq.: 34MATH133. QR

34MATH148. Elementary Probability and Statistics II. 3 ug. cr. Understanding inference: sampling distribution probability, sample proportions and means, binomial distribution, confidence intervals, inference for means, comparing two means, inference for population spread. Prereq.: 34MATH147. QR

34MATH149. Elementary Probability and Statistics III. 3 ug. cr. Topics in Inference: Inference for proportions, two-sample inference, two-way tables and chi-square, analysis of variance, inference for regression. Prereq.: 34MATH148. QR

34MATH173. College Algebra I. 3 ug. cr. Real number system, exponents, polynomials, rational expressions, equations, formulas, inequalities, graphs of functions and variation. Prereq.: 34MATH134. QR

34MATH174. College Algebra II. 3 ug. cr. Polynomial functions and their graphs, rational functions, conic sections, exponential and logarithmic functions, systems of equations and inequalities. Prereq.: 34MATH173. QR

34MATH181. Trigonometry. 3 ug. cr. Angles, measurement, functions, inverses, graphs, identities, formulas, trigonometric equations, laws of sines and cosines and vectors. Prereq.: 34MATH174. QR

34MATH199. Independent Study in Math. 1-5 ug. cr. This course designation allows special courses suited to student needs and faculty interests to be introduced. This course is not intended to satisfy any program requirements in math. Prereq.: Permission of instructor.

34MATH225. Finite Mathematics. 3 ug. cr. Matrices, linear programming, simplex method, set theory and probability. Prereq.: 34MATH174. QR

34MATH226. Applied Calculus I. 3 ug. cr. Limits and continuity, functions, definition of the derivative, differentiation techniques, applications of the derivative (optimization problems), exponent and logarithmic functions and derivatives. Prereq.: 34MATH174. QR

34MATH227. Applied Calculus II. 3 ug. cr. Integration techniques and applications, functions of several variables, implicit differentiation, differential equations. Prereq.: 34MATH226. QR

34MATH261. Calculus and Analytic Geometry I. 5 ug. cr. Functions, limits and continuity; derivatives; applications of the derivative; and the integral. Prereq.: 34MATH181. QR

34MATH262. Calculus and Analytic Geometry II. 5 ug. cr. The integral and applications of the integral; exponential and logarithmic functions, inverse functions; techniques of integration; polar coordinates and conic sections. Prereq.: 34MATH261. QR

34MATH263. Calculus and Analytic Geometry III. 5 ug. cr. Taylor's formula, improper integrals, sequences and series; vectors, lines, planes and vector-valued functions. Prereq.: 34MATH262. QR

34MATH264. Calculus and Analytic Geometry IV. 5 ug. cr. Partial derivatives; multiple integrals; and calculus of vector fields. Prereq.: 34MATH263. QR

MEDICAL ASSISTING

34MA141. Administrative Fundamentals for the Medical Assistant. 6 ug. cr. This course provides professional and administrative principles and procedures for the medical assistant. Topics include professional and legal aspects of the medical assistant, an overview of the medical record, procedural and diagnostic insurance coding application, application of basic finance procedures, and basic finance procedures, and basic patient interactions and procedures in the medical office. Prereq.: 34ALH171. Coreq.: 34MA151.

34MA142. Clinical Fundamentals for the Medical Assistant. 6 ug. cr. This course will provide the clinical principles and procedures for the medical assistant. Topics include patient care skills, diagnostic testing, specimen collection and the practice of standard precautions. Prereq.: 34MA141. Coreq.: 34MA152.

34MA151. Medical Assistant Externship I. 2 ug. cr. This course provides opportunity for the medical assistant student to practice administrative medical office skills. Students will be placed in a medical office with appropriate supervision. Prereq.: 34ALH171. Coreq.: 34MA141.

34MA152. Medical Assistant Externship II. 2 ug. cr. This course provides opportunity for the medical assistant student to practice clinical skills in a medical office. Students will be placed in a medical office with appropriate supervision. Prereq.: 34ALH175. Coreq.: 34MA142.

MILITARY SCIENCE

34MS111. Basic Rappelling. 2 ug. cr. Introduction to basic rappelling and mountaineering skills. Small group leadership principles, designed to give students a functional base of practical management and leadership skills, taught through a physically and mentally challenging course. The course develops a sense of confidence in students' abilities to overcome challenging obstacles.

34MS112. Marksmanship and Leadership. 2 ug. cr. Introduction to safe use of a rifle and marksman-ship training. Basic fundamentals of small group leadership is stressed. Practical experience at leading and decision making is provided to students. Each student faces personal challenges and learns to overcome them through initiative, sound judgment and accurate problem analysis. Students begin to develop a functional base of practical management and leadership skills which can be applied to future challenging situations.

34MS113. Military Field Crafts. 2 ug. cr. Introduction to basic outdoor survival skills, to include map reading, orienteering, land navigation and CPR certification. Students are face with personal challenges that must be overcome through development of personal leadership and decision making skills. Students continue to build upon their functional base of practical management and leadership skills.

MULTIDISCIPLINARY

34MLTI100. Consortium. 1-24 ug. cr. This course allows students to take classes at other colleges and universities through the Greater Cincinnati Consortium of Colleges and Universities. Prereq.: Permission of consortium.

34MLTI110. Student Readiness and Success. 3 ug. cr. The Student Readiness and Success unit is designed to support incoming students' growth and success in all facets of learning through academic preparedness and knowledge of resources. Prereq.: Permission of consortium.

34MLTI111. Learning Community Link. 0 ug. cr. This course serves to indicate a student's involvement in a learning community cohort in a particular quarter. It can be taken multiple times to indicate the different quarters during which a student is part of a learning community.

34MLTI171. Student Success Skills. 1 ug. cr. This class is designed to support incoming first year students' growth and success in all facets of the learning process. The course will focus on academic preparedness, personal strengths, college resources and academic skills.

34MLTI172. Student Success Campus Resources. 1 ug. cr. This course is designed as a one credit hour course. The Student Success - College Resources unit is an orientation focusing on information to assist incoming first year students to successfully transition to college life.

34MLTI173. Student Success Major and Career Discovery. 2 ug. cr. For students to become aware of major and career options through self assessment and exploration.

34MLTI181. Personal Money Management. 1 ug. cr. Develop knowledge of basic money management principles to help students succeed in life. Principles covered include financial goal setting, cash flow and budgeting, time value of money, personal financial accounts, basic state and federal income taxes, the role of personal credit, investment options, and the role of financial planning. Simple electronic spreadsheets will be used to explore these topics.

34MLTI182. Personal Learning Styles. 1 ug. cr. Develop self-awareness of personal learning styles and examine individual ways of perceiving and processing information to develop life-long success skills in learning how to learn. Students will have the opportunity to voluntarily complete the Myers-Briggs Type Indicator (MBTI) as a tool to understand their unique personal learning styles, their strengths, and opportunities to develop alternative approaches to learning.

OFFICE ADMINISTRATION TECHNOLOGY

34OATN099. Office Skills Development. 3 ug. cr. Keyboarding speed and accuracy.

34OATN107. Document Formatting. 3 ug. cr. Review of keyboard and techniques; intensified drills for improvement of speed and accuracy; computerized production of business letter forms, reports, tables, etc. Exit speed of 45 wpm required. Pre-requisite: Pass the keyboard placement test or 34OATN171.

34OATN108. Document Processing. 3 ug. cr. Course is designed to qualify the student for a high-level position of responsibility in an office. Students continue to develop keyboarding skills by practicing on-the-job activities related to business offices. Speed and accuracy on straight copy and production are emphasized. Prereq.: 34OATN107.

34OATN143. Medical Terminology I. 3 ug. cr. Medical vocabulary applied to the language of medicine.

34OATN154. ICD Medical Office Coding. 3 ug. cr. Basic rules, regulations and principles for assigning ICD-9-CM codes to patient encounters for billing physician services. Student should possess proficiency in basic medical terminology. Coreq.: 34OATN143.

34OATN155. CPT Medical Office Coding. 3 ug. cr. Basic rules, regulations and principles for assigning CPT codes to patient encounters for billing physician services. Student should possess proficiency in basic medical terminology. Prereq.: 34OATN143.

34OATN156. Intermediate ICD Medical Coding. 3 ug. cr. Advanced theory and practice of ICD-9-CM, CPT and HCPCS Level II coding for the medical office environment. Prereq.: 34OATN154-155.

34OATN157. Reimbursement in Health Care. 3 ug. cr. Various methods of reimbursement for health care services, and an overview of auditing procedures necessary for compliance and accurate reimbursement. Prereq.: 34OATN154-155.

34OATN160. Medical Office Procedures. 3 ug. cr. Course prepares the health professional to be a multi skilled front office assistant. Emphasis placed on medical office administrative procedures including: scheduling, office equipment, records, billing, collections and coding. Prereq.: 34CIS177, 34OATN106.

34OATN165. Intermediate CPT Medical Coding. 3 ug. cr. A course on guidelines for accurate CPT coding assignment of surgical and hospital cases. Students abstract information from actual operative and hospital reports and case studies. Prereq.: 34OATN155.

34OATN166. Spreadsheets I. 3 ug. cr. Introduction to spreadsheets. Students will learn spreadsheet commands and develop spreadsheets during the course. Prereq.: 34CIS177.

34OATN167. Spreadsheets II. 3 ug. cr. Advanced concepts and applications using spreadsheets including macro programming, database, what-if sensitivity analysis. Prereq.: 34OATN166.

34OATN171. Keyboarding for Information Processing. 2 ug. cr. Introduction to keyboarding and keypad. Emphasis is placed on technique for speed and accuracy with control. Proper placement of fingers is stressed. Exit speed of 35 WPM is required. This course is designated as a P/F course.

34OATN172. Outlook. 3 ug. cr. An introductory, hands-on course using Microsoft Outlook software. This course will cover how to use Outlook to send and receive email, manage contacts, maintain schedules, organize the inbox and integrate Outlook with other Microsoft applications. Prereq.: 34CIS177.

34OATN173. Business Writing Skills. 3 ug. cr. Review of language skills and grammar usage as applied in business. Applications to affect a high degree of proficiency in business mechanics and vocabulary.

34OATN175. Customer Service. 3 ug. cr. Introduction to the basic concepts of customer service. Topics include customer service telephone skills, face-to-face communication, confidentiality, professional attitude when dealing with clients/customers, decision making, time management, problem solving and dealing with difficult situations. Attention to detail will be emphasized. Introduction to the electronic application of customer service. Prereq.: 34OATN296.

34OATN178. Word Processing I. 3 ug. cr. Orientation to personal computers for basic word processing applications. Will include concepts, applications, and instruction for basic machine operation and production of business office formats. Prereq.: 34CIS177.

34OATN179. Presentation Skills. 3 ug. cr. Introduction to using a microcomputer graphics program and various presentation media to create effective business presentations. Prereq.: 34CIS177.

34OATN180. Coding Skills Practicum. 3 ug. cr. Medical coding/billing students participate in a learning experience while completing other program requirements. Students practice in a medical records department. This experience provides an opportunity to apply knowledge and skills acquired in classes. Prereq.: 34OATN156-157. Coreq.: 34OATN165.

34OATN187. Medical Billing Procedures. 3 ug. cr. A course on methods for completing and processing of electronic and paper health care claims. Prereq.: 34OATN160.

34OATN207. Word Processing II. 3 ug. cr. Advanced word processing techniques including file management, terminology and advanced functions such as macros, outlines, tables/math, merge/sort/select, etc. Prereq.: 34OATN178.

34OATN215. Specialized Coding. 3 ug. cr. A course that examines a variety of specialty coding areas such as long term, home health, non-hospital settings, non-physician service and ambulatory coding. Prereq.: 34OATN156, 34OATN165, 34OATN187.

34OATN216. Records Management. 3 ug. cr. A course that provides an overview of the health record including content and documentation. This course will also examine the systems for managing paper-based and electronic health care records. Additional topics that will be covered include regulatory requirement, storage and retention needs, data reporting and quality issues. Prereq.: 34OATN160, 34OATN187.

34OATN217. Clinical Abstracting. 3 ug. cr. This course will focus on abstracting supportive data to validate diagnoses and procedures and using the information to create clinical databases. The following topics will be covered: analyzing and interpreting clinical documentation and Uniform Hospital Discharge Data Set guideline needs, data reporting and quality issues. Prereq.: 34OATN216.

34OATN226. Software Applications Integration. 3 ug. cr. A hands-on course that provides a basic knowledge of integration of business software utilizing decision making, creativity, and problem solving. Prereq.: 34CIS174, 34OATN166, 34OATN179, 34OATN207.

34OATN231. Business Information Technology Work Experience and Seminar I. 3-5 ug. cr. Work experience and seminar in office administration.

34OATN232. Business Information Technology Work Experience and Seminar II. 3-5 ug. cr. Further development of work experience and seminar in office administration.

34OATN233. Business Information Technology Work Experience and Seminar III. 3-5 ug. cr. Advanced work experience and seminar in office administration.

34OATN234. Business Information Technology Work Experience and Seminar IV. 3-5 ug. cr. Completion of work experience and seminar in office administration.

34OATN245. Medical Transcription I. 3 ug. cr. Techniques of machine transcription with emphasis on mailable copy. Medical terminology, subject matter and forms are utilized. Prereq.: 34OATN107, 34OATN143.

34OATN272. Windows. 3 ug. cr. An introductory, hands-on course which covers customizing the desktop, managing files, exploring the system programs, using the Internet, using Windows Mail and working with multimedia files. Prereq.: 34CIS177.

34OATN273. Business Communications. 3 ug. cr. Techniques in oral and written business communications. Business letters, memoranda and reports.

34OATN279. Office Management. 3 ug. cr. Administrative management and organization of office departments; methods used in selection and training of office personnel, office planning and layout, cost controls, types and uses of office equipment, office forms, and analysis of office procedures.

34OATN280. Project Management. 3 ug. cr. Introduction of software packages for time management and task management. Basic skills and competencies such as managing tasks, time management, management of resources, handling multiple projects, and customizing will be covered. Prereq.: 34CIS177, 34OATN296.

34OATN281. Desktop Publishing I. 3 ug. cr. Computerized desktop publishing methods used in preparing reports, newsletters and advertising copy. Prereq.: 34CIS177.

34OATN282. Desktop Publishing II. 3 ug. cr. A continuation of desktop publishing techniques including custom wraps, scanners, tabs and indents, styles, graphics, and templates. Prereq.: 34OATN281.

34OATN288. E-Commerce. 3 ug. cr. Introduction to the concepts, vocabulary, and procedures associated with e-commerce and the Internet. Topics include development of the Internet and e-commerce, prospects for business-to-business and business-to-consumer e-commerce, options available for doing business on the Internet, marketing issues related to e-commerce, tools used to build an e-commerce Web site, payment options, and customer service. Prereq.: 34CIS177.

34OATN295. Legal Transcription. 3 ug. cr. Techniques of machine transcription with emphasis on mailable copy. Legal terminology, subject matter and forms are utilized. Prereq.: 34OATN107, 34OATN274.

34OATN296. Workplace Technologies. 3 ug. cr. A hands-on introduction to the latest tools utilized in an office such as pocket PC's, digital cameras, scanners, voice applications, graphics tablets, conferencing applications and other emerging technologies. Topics will change as necessary. Prereq.: 34CIS177.

34OATN298. Office Simulation. 3 ug. cr. Coordination of career skills and knowledge including research, seminar and simulation. Prereq.: 34OATN226.

34OATN299. Independent Study in Administrative Support. 1-3 ug. cr. An individualized administrative support experience developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

ORIENTATION

34ORNT183. Freshman Year Experience: Your Personal Edge. 1 ug. cr. Discussion of personal change and how change impacts one's life and career choices. Topics will include experiential learning, current events, career choices, goal setting, conflict management, and interpersonal communication.

34ORNT184. Freshman Year Experience: Your Cutting Edge. 1 ug. cr. Reading, writing, math skills, and communication skills required in various courses and careers will be discussed. Project incorporating academic skills and decision-making skills.

34ORNT185. Freshman Year Experience: Your Returning Edge. 1 ug. cr. The special needs of adult returning students, dealing with factors which contribute to a successful academic experience. Topics include timing and sources of information, information on programs and classes, building support systems (personally, academically, non-academically), expectations of faculty and students and being acknowledged as adult students.

PARALEGAL TECHNOLOGY

SEE LEGAL ASSISTING TECHNOLOGY

PARAMEDIC EDUCATION

34PRED101. Paramedic Education I. 10 ug. cr. Emphasis on patient assessment and initial emergency management, circulation and respiratory emergencies, general pharmacology and intravenous therapy. Prereq.: Permission of instructor.

34PRED102. Paramedic Education II. 10 ug. cr. Continuation of 34PRED101 with emphasis on cardiac pathophysiology, assessment and management of cardiovascular emergencies, and pharmacological intervention, advanced cardiac life support (ACLS) techniques, and interpretation and management of electrocardiographic rhythm problems. Prereq.: 34PRED101.

34PRED103. Paramedic Education III. 5 ug. cr. Emphasis on pathophysiology, assessment and management of medical, trauma, obstetrical and pediatric emergencies. Prereq.: 34PRED102.

34PRED121. Paramedic Education Lab I. 2 ug. cr. Laboratory sessions include advanced airway management techniques, use of oxygen assessment adjuncts, and critical interventions for situation involving respiratory distress. Prereq.: Permission of instructor.

34PRED122. Paramedic Education Lab II. 2 ug. cr. Cardiac skill mastery and review of learned interventions. Prereq.: 34PRED121.

34PRED123. Paramedic Education Lab III. 1 ug. cr. Laboratory practice is directed at medical and trauma skill mastery and review of learned interventions. Prereq.: 34PRED122.

34PRED131. Paramedic Education Clinical/Field Experience I. 3 ug. cr. Introduction to the pre-hospital environment, in-hospital clinical practicum and skill practice. Students practice skills under the direct supervision of a preceptor in both the pre-hospital and in-hospital environments. Prereq.: Permission of instructor.

34PRED132. Paramedic Education Clinical/Field Experience II. 3 ug. cr. Continued monitored skills practice on advanced life support ambulance and in hospital clinical areas. Students practice skills under the direct supervision of a preceptor in both the pre-hospital and in-hospital environments. Prereq.: 34PRED131.

34PRED133. Paramedic Education Clinical/Field Experience III. 9 ug. cr. Clinical education involves a field internship where students are incorporated into a role transition process of acting as team leader in emergency care situations. Includes review of national Registry examination process. Prereq.: 34PRED132.

34PRED141. Emergency Medical Technician-Basic Course I. 3 ug. cr. This course is according to the Department of Transportation's (DOT's) national curriculum. This course will discuss the medical, legal and ethical issues surrounding EMT-basic care. Medical terminology, airway management and CPR training will be covered.

34PRED142. Emergency Medical Technician-Basic Course II. 3 ug. cr. This course continues with the Department of Transportation's (DOT's) national curriculum. This course will discuss neurological conditions, diabetic emergencies, behavioral care and hemodynamic shock management. Management of various injuries and illnesses of a pre-hospital care patient will be discussed. Prereq.: 34PRED141.

34PRED171. Emergency Medical Technician-Basic. 6 ug. cr. Satisfactory completion of this course allows the student to sit for the Ohio EMT-Basic (EMT-B) certification exam. This course is a prerequisite to paramedic education.

34PRED181. First Emergency Responder. 3 ug. cr. This course introduces the fundamentals of providing emergency care to the sick and injured until more highly trained personnel arrive. Students must be at least 18 years old and hold a high school diploma or GED. Satisfactory completion of this course allows the student to sit for the Ohio First Responder certification exam.

PHILOSOPHY

34PHIL121. Critical Thinking. 3 ug. cr. Introduction to the techniques of clear and careful reasoning. HU

34PHIL171. Introduction to Philosophy. 3 ug. cr. This course introduces students to the practice of philosophical questioning in three major areas of Being, Knowledge and Value. Students will analyze classic answers to these questions and will wrestle with these questions themselves both individually and in groups. Questions include: Is the universe basically material, mental, or spiritual? Is there meaning in life and where is this meaning found? What sources of knowledge are reliable? Is there truth for all? How is beauty determined? How should we organize society? What should ethics be based upon? To what degree are humans really free? HU, SE

34PHIL182. Contemporary Moral Issues. 3 ug. cr. Philosophical and ethical issues underlying major controversies of the day: rights, freedom, and punishment; sex; euthanasia, abortion, and others. HU, SE

34PHIL211. World Religions I. 3 ug. cr. History and the philosophy of Hinduism, Taoism, Buddhism, Zen Buddhism, and Zoroastrianism. Emphasis placed on examining human diversity as it is revealed through the teachings, ethics, rituals and organization. DC, HP

34PHIL221. World Religions II. 3 ug. cr. History and philosophy of Judaism, Christianity, and Islam. Emphasis placed on human diversity as it reveals itself through the teachings, ethics, rituals, organization, and the role of women within these religious traditions. DC, HP

34PHIL271. Women and Philosophy. 3 ug. cr. This course examines the role women have played in the development of Western philosophy from Greece and Rome through the Middle Ages, Renaissance, Enlightenment and the Contemporary period. A survey of women's perspectives in all areas of philosophy will include theories of being, knowledge and value. Special attention will be given to the social impact of gender; the class will also focus more specifically on one female philosopher of the professor's choice. HP, SE

34PHIL272. Philosophy and Sexuality. 3 ug. cr. This course examines philosophical analyses of sexuality from differing historical and cultural perspectives. Issues include sexual ethics, the role of genetics and environment in gender roles, courtship and marriage, the nature of love, reproduction, celibacy, alternative lifestyles, sex and power, sex and spirituality, and the definition of consent. HU, SE

34PHIL346. Philosophy of Religion. 3 ug. cr. This course examines classic issues in the philosophy of religion such as concepts of the sacred, the attributes of God, arguments for and against the existence of God, the problem of evil, religious experience, religious organization, ritual, and religious pluralism. Perspectives from around the world will be considered. HU

PHOTOGRAPHY

SEE APPLIED DESIGN

SEE ALSO: COMPUTER INFORMATION SYSTEMS – MULTIMEDIA

PHYSICS

34PHYS101. College Physics I. 4 ug. cr. A survey of physics without calculus. Topics include kinematics, Newton's laws of motion, equilibrium, energy, momentum and rotational motion. Prereq.: 34MATH181. NS, QR

34PHYS102. College Physics II. 4 ug. cr. A survey of physics without calculus. Topics include waves, electricity and magnetism. Prereq.: 34PHYS101. NS, QR

34PHYS103. College Physics III. 4 ug. cr. A survey of physics without calculus. Topics include thermodynamics, optics and quantum physics. Prereq.: 34PHYS102. NS, QR

34PHYS104. Introductory Physics I. 3 ug. cr. An introduction to the fundamentals of physics, supplemented by demonstrations. Prereq.: 34MATH134. NS, QR

34PHYS105. Introductory Physics II. 3 ug. cr. An introduction to the fundamentals of physics, supplemented by demonstrations. Prereq.: 34MATH134. NS

34PHYS106. Introductory Physics III. 3 ug. cr. An introduction to the fundamentals of physics, supplemented by demonstrations. Prereq.: 34MATH134. NS

34PHYS111. College Physics Laboratory I. 1 ug. cr. Lab to accompany 34PHYS101. Coreq.: 34PHYS101

34PHYS112. College Physics Laboratory II. 1 ug. cr. Lab to accompany 34PHYS102.

34PHYS113. College Physics Laboratory III. 1 ug. cr. Lab to accompany 34PHYS103. Coreq.: 34PHYS103

34PHYS120. Astronomy: The Solar System. 3 ug. cr. The sky and its motions. Tides, eclipses, light, and telescopes. The history of astronomy. Comparative planetology, comets, and other planetary debris. Formation and evolution of our solar system. NS

34PHYS121. Astronomy: Stars and Galaxies. 3 ug. cr. The sun and solar activity. The structure and evolution of stars. Variable stars, star charts, and coordinate systems. Stellar death, supernova, black holes. The Milky Way, other galaxies, and cosmology. NS

34PHYS125. Astronomy Lab: The Solar System. 2 ug. cr. Selected experiments in astronomy: use of telescopes, astrophotography, solar observations and computers in astronomy. Coreq.: 34PHYS120

34PHYS126. Astronomy Lab: Stars and Galaxies. 2 ug. cr. Selected experiments in astronomy: use of telescopes, astrophotography, solar observations, computers in astronomy. Coreq.: 34PHYS121

34PHYS151. Physics of Modern Electronics. 3 ug. cr. This course is designed to introduce topics in modern electronics to the general student. Topics covered include basic digital electronics, direct current circuits, amplifiers, and wave shaping circuits. Prereq.: 34MATH132. NS

34PHYS152. Physics of Modern Electronics Lab. 1 ug. cr. This course is designed to accompany Physics of Modern Electronics. Lab experiments will follow topics of the lecture. Coreq.: 34PHYS151.

34PHYS173. Introduction to Physics for Health Care Profession. 4 ug. cr. An introduction to physics for health care professionals. Classroom and labs will be centered on topics that apply to modern patient care. Prereq.: 34MATH132.

34PHYS201. General Physics I. 4 ug. cr. A calculus-based survey of physics, kinematics, Newton's Laws of Motion and kinetics, work and energy, impulse and momentum and rotational motion. Coreq.: 34MATH261. NS, QR

34PHYS202. General Physics II. 4 ug. cr. A survey of physics with calculus. Topics include oscillations, electricity and magnetism. Prereq.: 34PHYS201. Coreq.: 34MATH262. NS, QR

34PHYS203. General Physics III. 4 ug. cr. A survey of physics with calculus. Topics include thermodynamics, waves, optics and quantum physics. Prereq.: 34PHYS202. Coreq.: 34MATH263. NS, QR

34PHYS211. General Physics Lab I. 1 ug. cr. Lab to accompany General Physics. Coreq.: 34PHYS201.

34PHYS212. General Physics Lab II. 1 ug. cr. Lab to accompany General Physics. Coreq.: 34PHYS202.

34PHYS213. General Physics Lab III. 1 ug. cr. Lab to accompany General Physics. Coreq.: 34PHYS203.

34PHYS299. Independent Study in Physics. 1-3 ug. cr. An individualized physics experience developed jointly by the student and the instructor, subject to instructor approval. Prereq.: Permission of instructor.

POLITICAL SCIENCE

34POL101. American Government I. 3 ug. cr. Foundations and constitutional development of American political system; voting behavior, elections, public opinion, and political parties. SS

34POL102. American Government II. 3 ug. cr. Development of public policy, legislative, executive, and judicial branches, bureaucracy. SS

34POL103. American Government III. 3 ug. cr. Civil rights and liberties, state and local government. SS

34POL160. Comparative Government and Politics. 3 ug. cr. Fundamentals of comparative government institutions and political processes. SS

34POL180. International Relations. 3 ug. cr. The basic concepts, frameworks and policies associated with the study of international relations, historical examples and contemporary issues and problems. SS

34POL277. The American Presidency. 3 ug. cr. An examination of the institution of American Presidency from humble origins to contemporary dominance; fluctuations in power balance. HP, SS

PROFESSIONAL DEVELOPMENT

34PD171. Professional Development. 2 ug. cr. Career decision-making, including self-assessment techniques, value clarification, examining life and employment goals, exploring the work environment. Includes learning skills relevant to the job search process as well as those needed to succeed and progress in their career.

PSYCHOLOGY

34PSYC101. Introduction to Psychology I. 3 ug. cr. Major concepts of psychology as a behavioral science: methods and tools of psychology; personality; mental health; attention and perception; learning; intelligence and creativity; remembering and forgetting. SS

34PSYC102. Introduction to Psychology II. 3 ug. cr. The major concepts of psychology as a behavioral science continued. Prereq.: 34PSYC101. SS

34PSYC103. Introduction to Psychology III. 3 ug. cr. The major concepts of psychology as a behavior science continued. Prereq.: 34PSYC102. SS

34PSYC180. The Psychophysiology of Emotional Management. 3 ug. cr. This course is designed to give the student the inside story on the physiology of emotions. Students will get basic neuroscience information on how different parts of your brain function and work together, how emotional memories affect their behavior, how their emotions and nervous systems are related and how their heart and brain communicate with each other. This knowledge will help students overcome high stakes math anxiety, general test anxiety and improve their academic performance. SS

34PSYC205. Child Development. 3 ug. cr. Social, psychological, and physical forces in the development of the human organism from conception through early childhood. A study of developmental principles. Prereq.: 34PSYC101. SS

34PSYC206. Adolescent Development. 3 ug. cr. Continued study of human development. Social, psychological, and physical forces in the development of the human organism from late childhood through adolescence. Prereq.: 34PSYC101. SS

34PSYC207. Adult Development. 3 ug. cr. Continued study of human development. Social, psychological and physical forces in the development of the human organism from early adulthood through old age. Prereq.: 34PSYC101. SS

34PSYC210. Human Sexuality. 3 ug. cr. A presentation of biological and psychological principles to foster a better understanding of human sexual behavior. Includes an analysis of sexual attitudes. SS

34PSYC241. Social Psychology. 3 ug. cr. Analysis of factors affecting human social interaction including aggression, developing relationships, determining the causes of behavior, and ways of influencing others. Prereq.: 34PSYC102. DC, SS

34PSYC251. Abnormal Psychology. 3 ug. cr. Behavior disorders, personality disturbances; bases and diagnosis; therapies. Prereq.: 34PSYC102. DC, SS

34PSYC253. Psychology of Personality. 3 ug. cr. This course is a survey of personality psychology. Each section of the course will cover a specific personality theorist and his or her conceptualization of personality. It is designed to give students an appreciation for the various theories of personality that have been put forth over the last 120 years. The course examines topics such as personality development, the elements of personality, research methods and personality assessments. Students should complete this course with a good understanding of the major theories of personality. Prereq.: 34PSYC102. SS

34PSYC274. Introduction to Statistical Methods. 3 ug. cr. Required of psychology majors. Statistical methods used in psychology. Descriptive statistics, introduction to probability and sampling distributions. Prereq.: 34MATH133. QR

34PSYC275. Intermediate Psychological Statistics. 3 ug. cr. Required of psychology majors. Co-relational methods, analysis of variance and non-parametric statistics. Prereq.: 34PSYC274. QR

34PSYC285. Special Topics in Psychology. 3 ug. cr. Students will gain insight into current issues in Psychology. Prereq.: 34PSYC102. SS

34PSYC290. Introduction to Psychology Research. 3 ug. cr. This course provides information and practice in understanding research methods and statistics used in psychological studies. Students read and critique studies from scholarly journals in psychology. This course is designed to prepare psychology students for the research methods and statistics sequence for the baccalaureate degree in psychology. Prereq.: 34PSYC102. SS

34PSYC291. Psychology of Interpersonal Relations. 3 ug. cr. Study of human interaction including values, socialization, roles, psychological games, conflict, parenting and small group dynamics. Emphasis on increased self-awareness and interpersonal skills. SS

34PSYC299. Independent Study in Psychology. 1-3 ug. cr. Individualized program in reading, studying and/or research developed jointly by the student and instructor. Prereq.: Permission of instructor.

34PSYC371. Health Psychology. 3 ug. cr. Health Psychology is concerned with the interaction between behavior, health and illness. It entails the psychological study of the relationship between health and lifestyle, stress and coping, and health compromising behavior. This course will attempt to encourage discourse about selected topics through the use of topic thought papers and an article review assignment (ARA). Prereq.: 34PSYC101.

34PSYC373. Psychological Mechanisms of Prejudice and Racism. 3 ug. cr. This course introduces students to psychological mechanisms that sustain stereotyping, prejudice and racism. Discussion will focus on research, which now exist on racial attitudes, stereotypes, inter-group relations and how to reduce prejudice. Prereq.: 34PSYC101.

READING

34READ099. Reading Academic Texts. 3 ug. cr. A course to improve critical reading, comprehension and recall as applied to college textbooks. Reading strategies will be learned and applied to students' own textbook reading assignments from their other college courses.

REAL ESTATE

34RE171. Real Estate Principles & Practices. 4 ug. cr. A survey of real estate marketing, economics and general administrative principles and practices in the State of Ohio. Topics include license law, contracts and legal instruments, agency relationships, ethics, financing and mortgages, appraisal and valuation, and current industry trends. Required for Ohio real estate examinations.

34RE173. Real Estate Law. 4 ug. cr. A survey of real estate law, principles and practices in the State of Ohio. Topics include types of estates in land, co-ownership, mortgages, deeds, contracts, fair housing, Ohio license law and landlord-tenant law. Required for Ohio real estate examinations.

34RE174. Real Estate Finance. 2 ug. cr. A survey of the principles and practice of real estate finance including mortgage markets, types of financing, government activities and laws, real estate cycles, processing, closing, defaults, qualifying buyers, sources of funds, and real estate finance instruments, and seller financing. Prereq.: 34RE171, 34RE173.

34RE175. Real Estate Appraisal. 2 ug. cr. An in-depth exploration of essential theories and methodologies used in real estate appraisal and valuation. Topics include classical approaches to determining value and value influences, property inspection and analysis, reconciliation of values, reporting appraisal opinions and current trends affecting real estate appraisal in the State of Ohio. Required for Ohio real estate examinations. Prereq.: 34RE171, 34RE173.

RESPIRATORY THERAPY

34RT101. Introduction to Respiratory Care. 3 ug. cr. This course is designed to introduce the field of respiratory care to students admitted into the program, and prepares the students to begin clinical practice of respiratory care within a hospital setting. Laboratory exercises will be used to allow student hands-on practice with procedures and operation of monitoring and therapeutic equipment. Discussion, simulation and role-play will allow development to patient approach. Student must be enrolled in the respiratory therapy program. Prereq.: 34BIOL105, 34CHEM104. Coreq.: 34BIOL121.

34RT102. Respiratory Treatment Modalities I. 4 ug. cr. This course introduces the student to the clinical setting, patient assessment and treatment. Areas include safety, care planning, monitoring techniques, fluid and electrolyte balances and nutrition of the respiratory patient. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT101.

34RT103. Respiratory Treatment Modalities II. 4 ug. cr. Theory, application, equipment and skill development of procedures required for clinical practice in suctioning, airway management, ventilatory support, bronchopulmonary hygiene, and arterial puncture. Prereq.: 34RT102.

34RT112. Respiratory Clinical Practice I. 1 ug. cr. An introduction to respiratory care in the hospital setting. Topics include practical application of oxygen delivery systems, aerosol therapy, incentive spirometry, patient positioning and patient assessment. Prereq.: 34RT101, 34RT172. Coreq.: 34RT102.

34RT113. Respiratory Clinical Practice II. 1 ug. cr. Clinical practice in a hospital setting. Topics include practical application of IPPB, humidity aerosol therapy, chest physiotherapy and incentive spirometry. Prereq.: 34RT102. Coreq.: 34RT103.

34RT113. Respiratory Clinical Practice II. 1 ug. cr. Clinical practice in a hospital setting. Topics include practical application of IPPB, humidity aerosol therapy, chest physiotherapy and incentive spirometry. Prereq.: 34RT112, 34RT173. Coreq.: 34RT103.

34RT172. Cardiopulmonary Anatomy and Physiology. 4 ug. cr. Detailed anatomy and physiology of the respiratory and circulatory systems. Topics covered include normal control of ventilation, principles of gas diffusion, oxygen, acid base balance, and carbon dioxide transport. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT103.

34RT173. Cardiopulmonary Disease I. 3 ug. cr. Diseases and disorders affecting the cardiopulmonary systems emphasizing diagnosis, selection and implementation of therapeutic modalities, and the role of the respiratory care practitioner in treatment. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT172.

34RT174. Cardiopulmonary Disease II. 3 ug. cr. Patient assessment skills are enhanced to allow students to interpret patient data including: hemodynamic monitoring data, physical examination, pulmonary function reports, radiographic imaging and mechanical ventilation data. Cardiopulmonary diseases are reviewed with an emphasis on pathophysiological manifestation that can be assessed. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT173.

34RT201. Introduction to Mechanical Ventilation. 4 ug. cr. Respiratory care of the critically ill patient including the assessment, equipment, monitoring and care of the mechanically ventilated patient. Prereq.: 34RT103, 34RT113, 34RT174. Coreq.: 34RT211.

34RT202. Pediatrics and Neonatology. 3 ug. cr. Care of the pediatric patient with cardiopulmonary disease. Development of the fetus, anticipation of high-risk pregnancies and evaluation and care of the newborn infant emphasizing neonatal and pediatric pulmonary physiology and disease are covered. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT241.

34RT203. Advanced Respiratory Critical Care. 3 ug. cr. Advanced respiratory care of the critically ill patients focusing on medical and surgical conditions that require intensive cardiopulmonary monitoring and therapeutic care. Student must be enrolled in the respiratory therapy program. Prereq.: 34RT241.

34RT204. Specialties in Respiratory Care. 2 ug. cr. This course includes an in-depth study of different specialized areas of respiratory care, including pulmonary rehab, home care ventilators, care of the burn patient, metabolic and exercise testing, sleep apnea, neonatal assessment, respiratory care management, and emerging roles of the respiratory therapist. Prereq.: 34RT203, 34RT212. Coreq.: 34RT213.

34RT211. Respiratory Clinical Practice III. 3 ug. cr. Respiratory Care clinical practice in a hospital setting. Topics include airway management, sterilizing equipment, introduction to ventilator care and the operating room. Prereq.: 34RT103, 34RT113, 34RT174. Coreq.: 34RT201.

34RT212. Respiratory Clinical Practice IV. 3 ug. cr. Respiratory clinical practice in a hospital setting. Topics include care of patients requiring mechanical ventilation and special rotations in pulmonary functions, equipment and pediatrics. Prereq.: 34RT174, 34RT201, 34RT211.

34RT213. Respiratory Clinical Practice V. 3 ug. cr. Students will perform advanced respiratory care techniques using computerized clinical simulations and for patients in a critical care setting. Prereq.: 34RT212.

34RT214. Respiratory Clinical Practice VI. 3 ug. cr. Students will perform advanced respiratory care techniques using computerized clinical simulations and for patients in a critical care setting. Prereq.: 34RT213.

34RT220. Respiratory Care Seminar. 3 ug. cr. Course content includes a discussion of special issues pertaining to the field of respiratory care, including ACLS certification, starting IV's and drawing venous blood, and preparation for the national credentialing exams. A final evaluation of clinical skills is also done as part of this course. Prereq.: 34RT204, 34RT213. Coreq.: 34RT214.

SOCIAL SCIENCE

34SOSC171. Introduction to Women's Studies. 3 ug. cr. Provides an interdisciplinary approach to the analysis of women's social, economic, and political status in the U.S. today. DC, SS

34SOSC172. Women in Art. 3 ug. cr. Exploration of the role women have played in the visual arts will be explored. Painted and sculptured images of women in the history of art will be reviewed. Women as artists will be high-lighted with a special unit of women of color -- Native American, Latin American, Asian, and African-American women artists. DC, HP

34SOSC204. Women and Society I: Women and Work. 3 ug. cr. An interdisciplinary study of female work (paid and unpaid) before and after the Industrial Revolution in North America. Includes farm, slave, domestic, childrearing, industrial, service and professional work with an emphasis on domestic labor and 20th century secretarial and health care jobs. DC, HP

34SOSC205. Women and Society II: Sexuality and Reproduction. 3 ug. cr. History of women's sexual and reproductive roles since 1800. Topics include courtship and marriage, violence against women, childbearing, birth control and abortion. DC, HP

34SOSC206. Women and Society III: Culture and Politics. 3 ug. cr. A study of the roles of black and white women in North American culture and activist efforts to change them. Deals with women and religion, reform, labor, civil rights, and political movements. Particular emphasis on historical and contemporary women's movements. DC, HP

34SOSC371. Society, Ethics and Technology. 3 ug. cr. A multidisciplinary course designed to provide an insight into the fundamental, historical, and contemporary ideas of the nature of technology as an area of human knowledge. Attention is given to the positive and negative aspects of technology and how they affect society. SE, SS

SOCIOLOGY

34SOC141. Introduction to Sociology I. 3 ug. cr. An introduction to sociological principles and perspectives for the analysis of the social character of human activities, particularly in contemporary society. SS

34SOC142. Introduction to Sociology II. 3 ug. cr. An examination of social structure, with emphasis on the organization of major social institutions, the relationship of humans to their environments, and social change. Prereq.: 34SOC141. SS

34SOC143. Contemporary Social Issues. 3 ug. cr. Discussion of selected social issues and problems of current concern in society. Prereq.: 34SOC141. SE, SS

34SOC210. Social Inequality: Race, Class, Gender. 3 ug. cr. Analysis of the way social inequality, life experience and life chances are affected by race, class and gender. Special focus on how social inequality gets reproduced through ideology and social institutions. Prereq.: 34SOC141. DC, SE

34SOC273. Substance Abuse in Contemporary American Society. 3 ug. cr. An examination of substance abuse in our society. An interdisciplinary view drawing from the sociological, psychological and biological perspectives. SS

34SOC275. Sociology of the Family. 3 ug. cr. Analysis of contemporary patterns of marriage and family life, including examination of courtship, marriage and marital adjustment, childrearing, divorce and alternatives to traditional family roles. SS

34SOC289. The Global Community: Cultural Diversity and Social Interaction. 3 ug. cr. Develops awareness of and sensitivity to cultural diversity in today's world. Topics include an examination of how people

from different cultures interact and how cultures influence people's interaction processes and patterns. Prereq.: Permission of instructor. DC, SS

34SOC299. Independent Study in Sociology. 1-3 ug. cr. Individualized program in reading, studying and/or research developed jointly by the student and instructor. Prereq.: Permission of instructor.

34SOC325. Deviance. 3 ug. cr. Sociological perspectives on deviance and control, including examination of social causes and social reactions to deviance. Prereq.: 34SOC141. SS

34SOC372. Special Topics In Sociology. 3 ug. cr. In-depth examination of theory and research surrounding a topic of current interest to the discipline. Prereq.: 34SOC141.

34SOC373. Race in Modern Society. 3 ug. cr. A sociological analysis of race and ethnicity. Special Attention given to racial and ethnic prejudice, discrimination and social inequality. Prereq.: 34SOC141.

SPANISH

34SPAN101. Basic Spanish I. 5 ug. cr. An intensive course; topics include reading, writing, speaking, listening, grammar and culture. DC, HU

34SPAN102. Basic Spanish II. 5 ug. cr. An intensive course; topics include reading, writing, speaking, listening, grammar and culture. DC, HU

34SPAN103. Basic Spanish III. 5 ug. cr. An intensive course; topics include reading, writing, speaking, listening, grammar and culture. DC, HU

34SPAN104. Elementary Intensive Spanish I. 5 ug. cr. An intensive course; topics include reading, writing, speaking, listening, grammar and culture. DC, HU

34SPAN105. Elementary Intensive Spanish II. 5 ug. cr. Continued intensive study in listening, speaking, reading, writing, grammar and culture. Prereq.: 34SPAN104. DC, HU

34SPAN106. Elementary Intensive Spanish III. 5 ug. cr. Advanced study in Spanish; listening, speaking, reading, writing, grammar and culture. Prereq.: 34SPAN105. DC, HU

34SPAN111. Extended Basic Spanish 1. 3 ug. cr. For beginning students: Emphasis on speaking, listening, reading, writing and culture. The first course in a three part sequence. DC, HU

34SPAN112. Extended Basic Spanish 2. 3 ug. cr. For beginning students: Emphasis on speaking, listening, reading, writing and culture. The second course in a three part sequence. Prereq.: 34SPAN111. DC, HU

34SPAN113. Extended Basic Spanish 3. 3 ug. cr. For beginning students: Emphasis on speaking, listening, reading, writing and culture. The third course in a three part sequence. Prereq.: 34SPAN112. DC, HU

34SPAN114. Extended Basic Spanish 4. 3 ug. cr. Continuation of first year Spanish. Emphasis on speaking, listening, reading, writing and culture. The first course in a three part sequence. Prereq.: 34SPAN113. DC, HU

34SPAN115. Extended Basic Spanish 5. 3 ug. cr. Continuation of first year Spanish. Emphasis on speaking, listening, reading, writing and culture. The second course in a three part sequence. Prereq.: 34SPAN114. DC, HU

34SPAN116. Extended Basic Spanish 6. 3 ug. cr. Continuation of first year Spanish. Emphasis on speaking, listening, reading, writing and culture. The third course in a three part sequence. Prereq.: 34SPAN115. DC, HU

34SPAN171. Spanish for Health Care Professionals. 3 ug. cr. A study of Spanish related to health care professions. Students will be introduced to basic written and oral vocabulary for communicating with Spanish-speaking patients in a variety of settings. This course is

designed not only to help students to communicate in Spanish but also to help them understand the cultural issues related to effective interaction with Spanish-speaking individuals who live in the United States. Course material includes interactive grammar, topic related exercises and cultural assignments. No prior experience with the Spanish language is required.

34SPAN172. Spanish for Health Care Professionals II. 3 ug. cr. This is the second course in a two-course sequence of Spanish language and culture related to health care professions. Students will be introduced to basic written and oral vocabulary for communicating with Spanish-speaking patients in a variety of settings. This course is designed not only to help students to communicate in Spanish but also to help them understand the cultural issues related to effective interaction with Spanish-speaking individuals who live in the United States. Course material includes interactive grammar, topic related exercises and cultural assignments. Prereq.: 34SPAN171.

34SPAN180. World Cultures: Hispanic I. 3 ug. cr. A study of culture of Latin America, including such subjects as family, education, dance, art, folklore, religion and customs of daily life. This course is taught in English. DC, HU

34SPAN181. World Cultures: Hispanic II. 3 ug. cr. A study of culture of Spain, including such subjects as family, education, dance, art, folklore, religion and customs of daily life. This course is taught in English. DC, HU

34SPAN182. World Cultures: Hispanic III. 3 ug. cr. Students in this course study the historical background and present contributions or concerns of the major Latino groups in the United States. We will use a variety of resources, including movies, music, biography, history, literature and guest speakers, to create a broad portrait of the Hispanic world. This course is taught in English. DC, HU

34SPAN183. Study Abroad in Latin America. 3 ug. cr. This course is an on-site experience of Latin American culture and history with a focus on a specific country or region, allowing students to expand their knowledge of themes discussed in the Latin American Culture course. Prereq.: Permission of instructor. DC, HU

34SPAN251. Spanish Composition and Conversation I. 3 ug. cr. The purpose of this course is to develop students' communicative competence and proficiency in the Spanish language. The students will understand and use oral and written in a given discourse setting. Students' pronunciation of Spanish will also be refined. This is the first of a three-quarter sequence. Prereq.: 34SPAN116. DC, HU

34SPAN252. Spanish Composition and Conversation II. 3 ug. cr. The purpose of this course is to develop students' communicative competence and proficiency in the Spanish language. The students will understand and use oral and written in a given discourse setting. Students' pronunciation of Spanish will also be refined. This is the second of a three-quarter sequence. Prereq.: 34SPAN251. DC, HU

34SPAN253. Spanish Composition and Conversation III. 3 ug. cr. The purpose of this course is to develop students' communicative competence and proficiency in the Spanish language. The students will understand and use oral and written in a given discourse setting. Students' pronunciation of Spanish will also be refined. This is the third of a three-quarter sequence. Prereq.: 34SPAN252. DC, HU

34SPAN299. Independent Study in Spanish. 1-3 ug. cr. Individualized program in reading, studying, and/or research developed jointly by the student and instructor. Prereq.: Permission of instructor.

SPECIAL EDUCATION

34SPED250. Foundations and History of Special Education. 4 ug. cr. This class provides an introduction to the current laws, processes, and procedures of special needs education. Federally identified disability categories and types of disability will also be discussed. DC, SE

34SPED371. Effective Teaming in Education. 3 ug. cr. An ecological-systems theory review of special education to focus on teaming, collaboration in teams, working with families and other professionals and problem solving with an emphasis on creating, implementing and evaluating intervention effectiveness. Prereq.: 34EDFN231. DC, SE

STATISTICS

34STAT241. Business Statistics I. 3 ug. cr. Tabular and graphic presentation of data; measures of central tendency and dispersion; probability theory and distributions; statistical inference including confidence intervals and hypothesis testing; analysis of variance; correlation techniques; and regression analysis. Prereq.: 34MATH174. QR

34STAT242. Business Statistics II. 3 ug. cr. Statistical topics of analysis of variance; correlation techniques; and regression analysis. Prereq.: 34STAT241. QR

34STAT243. Business Statistics III. 3 ug. cr. Statistical topics of nonparametric hypothesis tests, quality control methods, indexing, forecasting, decision analysis and surveying issues. Prereq.: 34STAT241. QR

34STAT271. Survey of Statistics. 3 ug. cr. Principles and techniques of collecting, analyzing, and interpreting quantitative data. Topics include central tendency; dispersion; correlation, hypothesis testing, confidence intervals, regression and analysis of variance. Prereq.: 34MATH132. QR

SURGICAL TECHNOLOGY

34ST101. Fundamentals of Surgery I. 4 ug. cr. This course introduces the foundation of the practice of surgical technology to the students. Use of the classroom and laboratory setting to prepare the students with beginning level surgical technology knowledge skills and behaviors. Topics include the role of the surgical technologist; roles of the operating room personnel; basic principles of aseptic technique; the Patient's Bill of Rights; infection control; the surgical scrub; operating room attire; gowning and gloving; patient confidentiality, legal, and ethical issues; the surgical conscious; and operating room safety.

34ST102. Fundamentals of Surgery II. 4 ug. cr. This course prepares the students with entry-level skills, knowledge and behaviors needed in the operating room setting. Depth and expansion of knowledge will be emphasized when covering the fundamental topics of surgical technology such as: Instrumentation, sterile supplies, operating room equipment, infection control, the surgical scrub, and the set up of sterile fields. Other topics include sterilization and disinfection; the role of anesthesia, operating room preparation; patient positioning; patient care in the OR; surgical medications; incisions in relation to general surgery; introduction to wound closure and healing; hemostasis; safety and emergency practices in the operating room. Use of the classroom and laboratory setting. Prereq.: 34ST101.

34ST103. Surgical Practice. 4 ug. cr. Introduction of basic general surgeries with the following topics: operating room preparation, instrumentation, equipment and supplies. Lecture, lab and clinical. Prereq.: 34ALH170, 34ALH271. 34BIOL203, 34ST102.

34ST201. Surgical Specialties I. 2 ug. cr. This course introduces the surgical tech student to the following surgical specialties: general, gastrointestinal, gynecological and plastic/reconstructive. The student will learn the course material/skills in Lecture and lab. Prereq.: 34ST103. Coreq.: 34ST211.

34ST202. Surgical Specialties II. 2 ug. cr. This course introduces the surgical tech student to the following surgical specialties: orthopedic and genitourinary. The student will learn the course material/skills in Lecture and lab. Prereq.: 34ST201. 34ST211. Coreq.: 34ST212.

34ST203. Surgical Specialties III. 2 ug. cr. This course introduces the surgical tech student to the following surgical specialties: neurosurgery, ophthalmic, ear-nose-throat, dental/oral and maxillofacial. The student will learn the course material/skills in Lecture and lab. Prereq.: 34ST202, 34ST212. Coreq.: 34ST213.

34ST204. Surgical Specialties IV. 2 ug. cr. This course introduces the surgical tech student to the following surgical specialties: vascular, thoracic, cardiovascular, transplantation, obstetrics and pediatrics. The student will learn the course material/skills in Lecture and lab. Prereq.: 34ST203, 34ST213. Coreq.: 34ST214.

34ST211. Surgical Specialties I Clinical. 3 ug. cr. This course allows the surgical tech student to experience the following surgical specialties: general, gastrointestinal, gynecological and plastic/reconstructive in the clinical setting. The clinical experience will occur in a functioning operating room in an affiliated hospital, surgi-center, or office setting with a licensed professional mentoring the student. Prereq.: 34ST103. Coreq.: 34ST201.

34ST212. Surgical Specialties II Clinical. 3 ug. cr. This course allows the surgical tech student to experience the following surgical specialties: orthopedics and genitourinary in the clinical setting. The clinical experience will occur in a functioning operating room in an affiliated hospital, surgi-center, or office setting with a licensed professional mentoring the student. Prereq.: 34ST201, 34ST211. Coreq.: 34ST202.

34ST213. Surgical Specialties III Clinical. 3 ug. cr. This course allows the surgical tech student to experience the following surgical specialties: neurosurgery, ophthalmic, ear-nose-throat, dental/oral and maxillofacial in the clinical setting. The clinical experience will occur in a functioning operating room in an affiliated hospital, surgi-center, or office setting with a licensed professional mentoring the student. Prereq.: 34ST202, 34ST212. Coreq.: 34ST203.

34ST214. Surgical Specialties IV Clinical. 3 ug. cr. This course allows the surgical tech student to experience the following surgical specialties: vascular, thoracic, cardiovascular, transplantation, obstetrics and pediatrics in the clinical setting. The clinical experience will occur in a functioning operating room in an affiliated hospital, surgi-center, or office setting with a licensed professional mentoring the student. Prereq.: 34ST203, 34ST213. Coreq.: 34ST204.

34ST285. Surgical Externship. 6 ug. cr. This course begins the role transition of the student to actual practice. The student will begin preparation for the certification exam. The student will start to demonstrate clinical proficiency to an employment-acceptable level. The student will synthesize the course material/skills of Surgical Specialties I, II, III, IV in lecture/lab; as evidenced by application and naturalization of those skills in the clinical setting. Prereq.: 34ST204. Coreq.: 34ST295.

34ST295. Surgical Technology Capstone. 3 ug. cr. The surgical technology program culminates with required participation in the capstone experience, designed to assess the student's cognitive and affective skills. The student will present a research project and a complete professional portfolio, in addition to the cumulative preference cards. Prereq.: 34ST204. Coreq.: 34ST285.

34ST301. The Perioperative Role Transition. 3 ug. cr. This course offers the introduction of fundamental operating room nursing activities. Topics include aseptic technique, planning, implementing and evaluating perioperative patient care, operative documentation, operating room preparation, instrumentation, equipment, supplies, and post operative roles. Utilization of classroom and laboratory settings reinforces the students cognitive, psychomotor, and affective skills commonly utilized during the perioperative experience. Introduction to the clinical learning sites, with applications of prior fundamental knowledge, skills and behaviors. Prereq.: Permission of instructor.

34ST302. Principles of Surgical Assisting. 2 ug. cr. This course is designed to explore the role of the surgical assistant. Instructions for proper patient positioning, skin preparation and marking, procedures for assisting with exposure, tissue handling, hemostasis, suctioning,

appropriate suturing techniques, selection and applications of drains and dressings in the surgical and office settings will be taught. Lecture and lab will be utilized for instruction, demonstration, practice and return demonstration of competency skills. Prereq.: Permission of instructor.

34ST303. Applied Surgical Assisting Concepts. 2 ug. cr. This course is designed to explore the role of the surgical assistant. Patient care concepts including catheterization, diagnostic testing, laboratory results, EKG, phlebotomy, advanced pharmacology concepts, wound healing, patient care skills for the critically ill as well as algorithms for handling operative emergencies will be taught in preoperative, intraoperative and postoperative applications. Lecture and lab will be used for instruction, demonstration, practice and return demonstration of competency skills. Prereq.: 34ST302.

34ST304. Special Topics in Surgical Assisting. 1 ug. cr. This course is designed to explore the topics impacting the role of the surgical assistant. Topics include medical-legal practice issues, introduction to billing and coding, and legislative topics pertinent to the practice.

34ST305. Surgical Assisting Lecture Series I. 2 ug. cr. This course will present focused case studies to develop skills in the following surgical specialties: General surgery, Orthopedic, and Endoscopy. Infection control will be discussed with emphasis on epidemiology, bacterial microorganisms of perioperative importance, indicators, treatments and control of surgical sight infections. Prereq.: 34ST303. Coreq.: 34ST315.

34ST306. Surgical Assisting Lecture Series II. 2 ug. cr. This course will present focused case studies to develop skills in the following surgical specialties: Cardiac, Vascular, EENT, OB/GYN, Neuro, GU, Oral, Plastics and Reconstructive. Complications in surgery will be examined and appropriate courses of action evaluated. Prereq.: 34ST303. Coreq.: 34ST316.

34ST311. Surgical Anatomy I. 3 ug. cr. This course will examine the human body's function and structure through gross anatomical dissection and lecture. Regional dissection of the thorax, and abdomen will be presented in surgical and clinical aspects of anatomy. Radiological, living anatomy and clinical co-relations will be emphasized. Lecture and cadaver lab will be used for instruction, demonstration, practice and return demonstration of competency skills. Prereq.: 34BIOL123.

34ST312. Surgical Anatomy II. 3 ug. cr. This course will include additional discussion, gross anatomical dissection, and lecture for the surgical assistant. Regional dissection of the head, neck, back and upper extremities will be presented in surgical and clinical aspects of anatomy. Radiological, living anatomy and clinical correlations will be emphasized. Lecture and cadaver lab will be used for instruction, demonstration, practice and return demonstration of competency skills. Prereq.: 34ST311.

34ST313. Surgical Anatomy III. 3 ug. cr. A course for surgical assistant students refining regional dissections, demonstrations, and special dissections related to the pelvis, lower extremities and vasculature will be oriented to clinical and surgical aspects of anatomy. Radiological, living anatomy and clinical correlations will be emphasized. Lecture and cadaver lab will be used for instruction, demonstration, practice and return demonstration of competency skills. Prereq.: 34ST312.

34ST315. Surgical Assisting Clinicals I. 3 ug. cr. This course will provide the surgical assistant student the opportunity to apply skills learned in the SA course to general, orthopedic and endoscopic cases in the clinical setting. Students must complete 125 cases to obtain certification. Prereq.: 34ST303. Coreq.: 34ST305.

34ST316. Surgical Assisting Clinicals II. 3 ug. cr. This course will provide the surgical assistant student the opportunity to apply skills learned in the SA course to peripheral vascular and other specialties including but not limited to GYN/GU, plastics and reconstructive, ENT, and cardiothoracic cases. Students are required to complete 125 independent cases to obtain certification. Prereq.: 34ST315. Coreq.: 34ST306.

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