

## ANTH 101G

*Social Cultural Anthropology*

3 CREDITS

ACADEMIC

Introduces students to the variability of human behavior cross-culturally and provides an understanding of the holistic approach to human behavior. Explores interrelationships, in a variety of cultural contexts, between beliefs, economic structures, sexuality, eating habits, ecology, politics, living arrangements, psychology, symbolism, and kinship.

## ART 1020

*Basic Drawing for Non Majors*

3 CREDITS

ACADEMIC

Develops an appreciation of the visual arts by investigating the elements and principles of art, art criticism, art production, and the history of art. Includes written critiques and assignments. Requires students to identify works of arts and describe their significance in writing.

## ART 1120

*2D Design*

3 CREDITS

CTE

Core course for all Art and Design majors. Introduces the elements and principles of design. Studies two-dimensional formats as they relate to a series of different design problems. Uses principles such as line, shape, rhythm, contour, value, and contrast in creative assignments.

## ART 1400

*Graphic Computer Applications*

3 CREDITS

CTE

Introduces concepts and software related to visual communication and the creation and reproduction of art. Teaches how to create and modify digital images using Adobe Photoshop. Also teaches basic design skills using Adobe Illustrator. Teaches basic page layout skills using InDesign. Covers basic software used in visual communications.

## ART 1010

*Intro to Visual Art*

3 CREDITS

ACADEMIC

Develops an appreciation of the visual arts by investigating the elements and principles of art, art criticism, art production, and the history of art. Includes written critiques and assignments. Requires students to identify works of arts and describe their significance in writing.

## ART 1050

*Photography I*

3 CREDITS

ACADEMIC

Emphasizes the use of camera operation, including aperture and shutter speed adjustments to control exposure, depth of field, lenses, and camera format. Teaches how to see photographically, using elements of composition and lighting to make stronger images.

## ART 1340

*Sculpture I*

3 CREDITS

ACADEMIC

Introduces methods and techniques of figurative clay sculpture. Students will construct armatures and build clay head and anatomy studies from the model. Includes firing and finishing techniques.

## ARTH 2720

*History of Art to the Renaissance*

3 CREDITS

ACADEMIC

Introduces color photography and color theory using digital photography and Adobe Photoshop as well as inkjet printing and scanning. Explores cross processing and other development manipulations. Discusses development of color photography, and color perception as applied to specific themes. Encourages creativity and personal expression.

**ASL 1020***Beginning American Sign Language II*

4 CREDITS

ACADEMIC

Builds on the experiences in ASL 1010. Emphasizes basic expressive and receptive conversational skills through active student participation. Continues introduction to American Deaf culture. Employs an immersion approach to language learning.

**ASTR 1040***Elementary Astronomy*

3 CREDITS

ACADEMIC

Introduces astronomy and cosmology. Provides a physics-based overview of the solar system, the lives and deaths of stars, galaxies, and the evolution of the Universe. Explores the basic principles of physics and light, the tools of astronomy, and interesting concepts such as the Big Bang and black holes.

**AUTO 1110***Brake Systems*

2 credits

CTE

For automotive majors and other interested community members. Covers the principles of automotive braking including hydraulic theory, diagnosis, and service of brake systems. Studies drum, disc, and power units. Includes wheel bearing adjustments, packing, and troubleshooting. Discusses tire construction including both lateral and radial run out and wheel balancing techniques. \*Corequisite AUT 111L

**AUTO 1160***Automotive Electrical Systems*

2 credits

CTE

Studies electrical and electronic fundamentals found and used on current model automobiles and trucks. Topics of study are: electricity, Ohm's Law, magnetism, inductance, capacitance, electronic devices, schematic user's information, test procedures, test equipment, and batteries.

\*Corequisite AUT 116L

**ASL 2010***Intermediate American Sign Language I*

4 CREDITS

ACADEMIC

Concentrates on understanding and acquiring more advanced conversational proficiency in ASL. Emphasizes the use of various kinds of ASL classifiers in the function of describing objects and in providing locative information. Analyzes Deaf culture with an emphasis on the struggles of this linguistic minority with a majority controlled educational establishment with particular attention to the effects on individual Deaf lives.

**AUT 1000***Survey of Automotive*

2 CREDITS

CTE

An introductory course for those interested in Automotive Technology. Presents basic automotive repair lessons on ignition and fuel systems, brakes, CV joints, and emissions for state inspections. Discusses electrical accessories, computerized engine controls, and chassis components. \*Co-Requisite AUT 100L

**AUTO 1130***Engine Repair*

2 credits

CTE

Offers an in-depth study of design, operation, troubleshooting, and service procedures for modern gasoline and diesel engines. Presents procedures for disassembly and reassembly of engine units, service, and technical data.

\*Corequisite AUT 113L

**AUTO 1170***Engine Electrical Systems*

2 credits

CTE

Studies the function, construction, operation, testing, diagnosis and servicing of automotive ignition systems, starting, charging/generator systems and battery testing using a variety of diagnostic test equipment.

\*Corequisite AUT 117L

## AUTO 1210

*Suspension and Steering*

2 CREDITS

CTE

Discusses nomenclature, theory of operation, and service procedures for passenger car and light-truck suspensions and computer controlled power steering systems. Includes instruction in two-wheel and four-wheel electronic systems. Presents methods of alignment including computerized alignment and service tools.

\*Corequisite AUT 121L

## AVSC 1010

*Survey of Aviation Science*

2 CREDITS

CTE

Designed for all students interested in aviation careers. Includes a general knowledge of aviation, historical events, and aerospace studies/development opportunities. Studies aviation and aerospace terminology, how aircraft and spacecraft fly, research and development of future systems, government and industry roles in the growth of aviation, and potential careers in aviation.

## AVSC 1120

*Basic Aircraft Systems*

1 CREDIT

CTE

Designed to provide a more in-depth knowledge of the basic systems used in piston-powered aircraft. Includes an examination of propeller systems, constant speed propellers, retractable landing gear, electrical systems, cooling, flight control systems, and basic hydraulics. Will help students with oral examinations for the commercial and other flight certificates.

## BIOL 1010

*General Biology*

3 credits

ACADEMIC

Introduces major themes and concepts of biology including cell and molecular biology, genetics, diversity, evolution, and ecology. Provides students with necessary information and skills to critically evaluate what they hear, read, and see in the living world; communicate clearly; and apply methods to interpret data for making informed decisions concerning the role of biology in a world of which they are a part.

\*Corequisite BIOL 1015

## AUT 1230

*Engine Performance*

2 CREDITS

CTE

Studies electrical and fuel systems fundamentals found on passenger cars, light-trucks, and marine applications of theory, operation, and construction. Includes solid state electronic ignition systems. Teaches tune-up including diagnosis and troubleshooting. Computerized fuel injection found on gasoline and diesel engines will also be studied. \*Corequisite AUT 123L

## AVSC 1100

*Ground Private Pilot*

4 credits

CTE

Introduces the airplane to entry-level student pilots as they prepare for flight training. Stresses airport systems, air traffic control procedures, aviation weather, air navigation, radio communication procedures, and Federal Aviation Regulations. Prepares students for the required FAA Private Pilot Airplane Knowledge Test.

## AVSC 2150

*Air Transportation Management*

3 credits

CTE

Presents the management skills necessary to be a fixed based operator and entry-level manager for scheduled airlines in the national aviation system. Teaches management functions, marketing, financing, organization & administration, flight operations, maintenance, safety, and liability. Provides hands-on experience of management styles.

## BIOL 1070

*Heredity*

3 credits

ACADEMIC

Introduces genetics for non-majors. Addresses patterns of inheritance from generation to generation (with an emphasis on human heredity), DNA structure and function as well as other aspects of molecular genetics and reproductive technologies.

**BIOL 1610***College Biology I*

4 CREDITS

ACADEMIC

Designed to give biology majors a broad exposure to many aspects of the life sciences. Covers topics of biochemistry, energetics, cell structure and function, genetics, and evolution

\*Corequisite BIOL 1615

**BTEC 1010***Fundamentals of Biotechnology*

3 CREDITS

ACADEMIC

Explores careers in biotechnology with emphasis on central dogma of biology, DNA techniques, applications in biotech, and bioethics. Examines forensics and human cloning. Includes lab work.

**CHEM 1010***Intro to Chemistry*

3 CREDITS

CTE

Presents the foundations of chemistry to students who need preparation for further study in chemistry as well as to students who only want to take an introductory course. Covers chemical measurements, atomic structure, formulas, chemical reactions and equations, chemical nomenclature, stoichiometry, molecules and chemical bonding, gas laws, liquids, solids, solutions, acids and bases.

\*Corequisite CHEM 1015

**CHIN 2010***Intermediate Chinese I*

4 CREDITS

ACADEMIC

Emphasizes increased communicative ability as well as grammatical accuracy; adds more complex, literary grammatical structures; focuses on reading of basic 600 characters and writing of basic 300 characters. Uses diglot weave (mixture of English and Chinese) and character-romanization mix to ease learning of characters.

**BIOL 1620***College Biology II*

3 CREDITS

ACADEMIC

Provides the second semester material in the two semester introductory course designed for biology majors. Covers origin and early evolution of life, plant structure and function, plant diversity, animal structure and function, animal diversity, and animal behavior.

\*Corequisite BIOL 1625

**CAW 140R***Millwork Technology*

4 credits

CTE

Teaches the techniques and skills necessary to construct quality furniture using current technology and processes. Stresses safety, machine and tool usage, joinery, and operations. Each semester the joinery and operations will differ and increase in difficulty depending on the required project. May be repeated for a maximum of 16 credits toward graduation.

**CHIN 1020***Beginning Chinese II*

4 CREDITS

ACADEMIC

Continues the same mode of learning as CHIN 1010 with renewed emphasis on conversational skills. Introduces characters and elementary calligraphy, reading and writing.

**CHIN 3118***Chinese Popular Culture*

4 CREDITS

ACADEMIC

\*Course Pending

## CJ 1010

*Intro to Criminal Justice*

3 CREDITS

CTE

Presents the processes, institution, and administration of criminal justice in the United States. Examines the crime problem, criminal law, law enforcement, criminal prosecution, criminal defense, bail, the jury system, and sentencing among adult and juvenile offenders. Explores the correctional system; namely, probation, prisons, inmates' rights, and parole.

## CJ 1330

*Criminal Law*

3 CREDITS

CTE

Provides an overview of criminal law. Covers history and terminology of the criminal justice system, the elements of specific offenses, and the role of the criminal justice profession in the fact-gathering process.

## CJ 1340

*Criminal Investigation*

3 CREDITS

CTE

Introduces the fundamentals of criminal investigations. Examines the techniques commonly utilized by investigative personnel for crimes against property and persons to include case management and documentation, interacting with victims, witnesses and suspects, and crime scene analysis.

## CJ 1350

*Introduction to Forensic Science*

3 credits

CTE

Studies Forensic Science and multiple forensic disciplines as they correlate with criminal investigations. Teaches the identification and importance of multiple types of physical evidence typically found at a crime scene and how that evidence is used to provide a link between the victim, suspect, and crime scene. Explains the proper techniques needed to document a crime scene and physical evidence.

## CMGT 1190

*Framing and Concrete Lab*

3 CREDITS

CTE

Offers learning experience in concrete and framing applied construction methods.

## CMGT 1220

*Finishing Lab*

3 CREDITS

CTE

Offers lab experience in finishing methods and techniques.

## COMM 1020

*Public Speaking*

3 CREDITS

ACADEMIC

Provides an introduction to basic concepts, theories, and principles of oral communication as applied to a variety of speaking situations. Develops competence in oral communication through performance, the development of critical thinking skills, arrangement of ideas, and use of evidence and reasoning to support claims. Explains how culture influences what is considered effective public speaking.

## COMM 1050

*Intro to Speech Communication*

3 CREDITS

ACADEMIC

Surveys the questions, methods, and current status of knowledge in the discipline of speech communication. Explores communication theory and practice across a variety of context and forms, including verbal, non-verbal, interpersonal, group, organization, and mass communication.

**COMM 1500***Intro to Mass Communication*

3 CREDITS

CTE

Provides a survey of the structure, operation, diversity, and effects of mass media. Discusses the different forms of media and the impact of media. Explores opportunities in communication work. Also covers consumer impacts.

**CRT 1110***Surface Preparation*

2 CREDITS

CTE

Covers environmental and personal safety when handling collision industry chemicals. Discusses metal preparation, surface treatment, painting and surface rust removal, proper sanding of old finishes, and film build tolerances. Teaches application and uses of undercoats, primers, primer surfacers, sealers and primer sealers. Covers block sanding, guide coats, wax and grease removers, and surface pre-cleaning techniques. \*Corequisite CRT 111L

**CRT 1130***Overall Refinishing and Problem Solving*

2 CREDITS

CTE

Teaches use and maintenance of shop paint spray equipment. Studies types of undercoating including sealers, primers, and primer surfacers. Discusses refinish products, their solid levels, coverage, and recommended refinish systems. Teaches prevention and removal of refinishing processing defects. Covers cutting and buffing. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification. \*Corequisite CRT 113L

**CRT 1210***Blending, Tinting and Detailing*

2 CREDITS

CTE

Studies automotive refinish blending techniques. Identifies proper procedures for Single stage, Base Coat, and Tri stage blending. Identifies detailing techniques and materials. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

\*Corequisite CRT 121L

**COMM 2110***Interpersonal Communications*

3 CREDITS

CTE

Examines the role of communication in interpersonal relationships. Includes the history of interpersonal communication research and theory, and applications such as negotiation, conflict management, listening, and assertiveness.

**CRT 1120***Nonstructural Repair*

2 CREDITS

CTE

Offers in-depth analysis of minor damage and applied metal working techniques. Studies properties of metal, elasticity, corrosion protection, work hardening, rough out, hammer and dolly techniques, heat shrinking, pick and file and grinding methods. Presents application of corrosion protection materials, body fillers, including metal and fiber reinforced fillers, and their shaping. Emphasizes safety precautions.

\*Corequisite CRT 112L

**CRT 1140***Panel Replacement and Adjustment*

2 CREDITS

CTE

Studies removal, replacement, and alignment of bolt-on body panels. Presents multiple latch mechanisms and their adjustments. Various trim and body fasteners are discussed. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

\*Corequisite CRT 114L

**CRT 1230***Welding and Cutting*

3 CREDITS

ACADEMIC

Introduces gas welding and cutting followed by intense study of MIG, TIG, and STRSW welding of mild, high strength, ultra-high strength steels, and aluminums. Studies the most common joints as they apply to current vehicles construction techniques. Introduces plasma arc cutting techniques. Uses ICAR Advanced Technical Curriculum. Successful completers should be prepared for ASE certification.

\*Corequisite CRT 123L

**CS 1030***Foundation of Computer Science*

3 CREDITS

CTE

Introduces the basics of computing, including computer hardware, and programming concepts and language. Explores how computers work and how a computer may be programmed. Includes a brief history of computer, programming languages, and computer numbering systems. Presents basic programming constructs; students produce a variety of introductory level programs. Surveys various computing professions.

**CS 1410***Object Oriented Programming*

3 CREDITS

CTE

Introduces the key concepts of object-oriented programming. Includes pointers and dynamic memory allocation, linked lists, inheritance and polymorphism, the development of graphical user interfaces, operator overloading, memory management, exceptions, templates and the standard template library, and an overview of object-oriented analysis and design. May be delivered online.

**DANCE 141R***Intro to Modern Dance Technique and Theory*

2 CREDITS

ACADEMIC

For students desiring to increase their physical skills in dance technique and performance technique. Introduces principles and concepts that govern human movement. Emphasizes development of strength, flexibility, coordination, core support, and movement expressiveness. Includes aspects of composition, improvisation, and performance as they relate to technique. Develops foundational skills in modern dance technique. Prepares students for more intensive study. Does not fulfill a dance major requirement.

**DGM 1110***Digital Media Essentials I*

4 CREDITS

CTE

Beginning course designed to give students an in-depth introduction and well-grounded understanding of the digital media way of thinking, opportunities in the field, various tools, and introduction to development techniques. Topics include: audience assessment, digital imaging, compression algorithms, ethical dilemmas, message design through text, audio, images, animation, and digital video.

**CS 1400***Fundamentals of Programming*

3 CREDITS

CTE

For majors requiring computer programming skills. Introduces the fundamental concepts of computer programming. Presents the ideas, tools, structure, syntax, and design techniques for developing well-formed programs. Studies problem solving, program structure, data types, decision logic, loops, functions, input and output, and arrays. Introduces the basic ideas of classes and objects. Requires students to program a number of assignments that demonstrate their understanding of these concepts.

**CS 2420***Intro to Algorithms and Data Structures*

3 CREDITS

CTE

Introduces data structures using an object-oriented programming language, and paradigm. Studies data abstraction as a design tool. Includes advanced arrays, records, dynamic data structures, searching and sorting, vectors, trees, linked lists, and graphs. Uses file I/O to store data structures. Discusses algorithm metrics.

**DGM 1061***Motion Picture Editing*

3 CREDITS

CTE

Introduces interface, fundamental set of tools, techniques and operations of Non-Linear Editing. Provides experience with basic editing functions, post production workflow and exporting a finished project for various distribution channels.

**DGM 1520***Corporate and Documentary Production*

3 CREDITS

CTE

Presents professional video production techniques used in documentaries and corporate video. Covers production processes such as working with corporations, scripting, camera techniques, basic lighting techniques, production management and basic non-linear editing techniques. Requires participation in a high-quality semester project that will take a corporate or documentary project through the entire pre-production, production and post-production process.

**DGM 1600***Introduction to Scripting*

3 CREDITS

CTE

Introduces the fundamentals of computer programming and problem solving using the current industry standard scripting languages. Emphasizes the fundamentals of structured and object-oriented programming, syntax, semantics, control structures, arrays, file I/O, testing/debugging, implementation, and the construction of graphical user interfaces. Applies these concepts to manipulate digital images, sound, movies, text, and web pages that are heavily used as digital media.

**DGM 1620***Survey of Animation*

3 CREDITS

CTE

Introduces animation principles and studio processes used in the contemporary animation industry. Emphasizes the synthesis of technology and aesthetics in the production of an animated title. Includes an introduction to animation milestones and personalities.

**DGM 2110***Digital Motion Picture Essentials*

3 CREDITS

CTE

Presents professional digital film production techniques used in feature films, documentaries, and corporate video. Covers production processes such as story structure and script development, camera techniques, basic lighting techniques, production management, and basic non-linear editing techniques. Addresses problem solving issues related to pre-production, production and post production. Includes a high-quality semester project that will take a story through the entire digital film pre-production, production, and post-production.

**DGM 2210***3D Modeling and Animation Essentials*

4 CREDITS

CTE

Addresses the basics of 3D modeling, rigging, texturing, animation, and rendering. Demonstrates how to utilize these techniques in a production pipeline for games and animation. Includes basic techniques and theories used in a 3D animation pipeline.

**DGM 1610***Scripting for Animation and Games*

3 CREDITS

ACADEMIC

Introduces the fundamentals of computer programming and problem solving using the current industry standard scripting languages. Emphasizes the fundamentals of structured and object-oriented programming, syntax, semantics, control structures, arrays, file I/O, testing/debugging, implementation, and the construction of graphical user interfaces. Applies these concepts to manipulate digital images, sound, movies, text, and web pages that are heavily used as digital media.

**DGM 1660***Introduction to 3D Modeling and Surfacing*

3 CREDITS

CTE

Covers the 3D pipeline which includes pre-production (rough placeholder art), production (finished art), and post production (composite and effects). Instructs students to develop 3D models, UV maps, and 2D textures. Teaches how to integrate models into a real-time rendering engine.

**DGM 2120***Web Essentials*

3 CREDITS

CTE

Provides the fundamentals necessary to plan, design, develop, deploy, and critique a web site which includes images, sound, video, forms, and separates content from presentation. Focuses on the fundamentals of web programming languages including XHTML, CSS, and JavaScript. Examines various ways to build an accessible web page. Utilizes collaborative document sharing as students work in a group to research and present on server technologies. Culminates in a final project in which students will design and deploy a working site.

**EART 1130***Basic Electric Theory*

4 CREDITS

CTE

Covers basic DC and AC theory involving voltage, current, resistance, batteries, magnetism, reactance, power and the use of digital meters. Includes the study of series, parallel, and complex circuits, and troubleshooting techniques. Studies both DC&AC motors and AC transformers. Explains the Reaction Theory of inductance, capacitance, and resistance dealing with L.C.R. circuits. Includes basic Digital Fundamentals of binary number systems and logic gates.

## ECON 1010

3 CREDITS

ACADEMIC

An introductory course which studies the operation of a mixed market system, including production, domestic and global trade, and labor-management economics. Includes business cycles and monetary and fiscal policies designed to modify those cycles.

## EGDT 1020

*3D Architectural Modeling*

3 CREDITS

CTE

For Engineering Graphics and Design Technology and Construction Management majors. Utilizes a Building Information Modeling system (BIM) to design 3D architectural models. Covers model design theory, parametric modeling methods, generation of residential and commercial construction plans and details, building components and systems, and manipulation of model information.

## EGDT 1070

*3 Dimensional Modeling Inventor*

3 CREDITS

ACADEMIC

Teaches basic 3D computer modeling course which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using AutoDesk Inventor. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, lofts, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings.

## EGDT 1090

*Intro to Architecture Drafting*

2 CREDITS

CTE

Covers basic procedures used in the development of residential plans. Includes architectural drafting standards, symbols, and techniques. Uses lectures and text reading assignments related to the drawings and worksheets. Introduces students to the architectural profession and related fields.

## EDEL 1010

*Intro to Education*

2 CREDITS

ACADEMIC

For students interested in careers in education. Facilitates matriculation into professional education programs. Examines the relationships of teaching, learning, motivating, and instructing in classroom settings. Includes observation in public schools to help students understand these relationships and appreciate the role of professional educators in today's society. Requires substantial commitment of time to off-campus field experiences.

## EDGT 1040

*Computer Aided Drafting*

3 CREDITS

CTE

Teaches drafting using AutoCAD (or other) software system. Includes enough exposure to Windows to create files, read directories, create directories and operate the AutoCAD software as it applies to Windows and Graphics. Uses CAD system to produce, plot, print, check, and correct drawings. Applies other drafting skills and standards.

## EGDT 1071

*3 Dimensional Modeling- Solidworks*

3 CREDITS

CTE

Teaches basic 3D computer modeling, which emphasizes the development of 3D machine parts, assemblies, and drawings in a constraint-based modeling environment using Solidworks. Emphasizes the feature based design process, which simulates actual manufacturing processes with 2D sketching tools and with 3D modeling tools including extrusions, revolutions, sweeps, lofts, coils, shells, placed features, patterns, and many others. Also teaches creation of basic multi-part assemblies, constraint-driven assembly animation, and generation of detailed production drawings.

## ENGL 1010

*Introduction to Writing*

3 CREDITS

ACADEMIC

Teaches rhetorical knowledge and skills, focusing on critical reading, writing, and thinking. Introduces writing for specific academic audiences and situations. Emphasizes writing as a process through multiple drafts and revisions. Includes major essay assignments, writing and collaboration, research writing, journals, and portfolios.

## ENGL 2010

*Intermediate Writing*

3 CREDITS

ACADEMIC

Emphasizes academic inquiry and research. Explores issues from multiple perspectives. Teaches careful reasoning, argumentation, and rhetorical awareness of purpose, audience, and genre. Focuses on critically evaluating, effectively integrating, and properly documenting sources. In addition to major essay assignments, may include in-class writing and collaboration, an annotated bibliography, oral presentations, and portfolios.

## ENGL 2300

*Shakespeare*

3 CREDITS

ACADEMIC

For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical review of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.

## ENVT 1110

*Intro to Environmental Management*

3 CREDITS

CTE

Surveys environmental issues and the impact of people on the environment. Covers water, air, and soil pollution. Discusses pollution prevention and remediation methods. For majors and any who have an interest in environmental issues.

## ESFF 1000

*Introduction to Emergency Services and Ability Testing*

4 CREDITS

CTE

Explores career opportunities and job requirements of fire and rescue emergency services. Discusses the various duties within emergency services, including structural firefighting, wildland fire fighting, technical rescue, hazardous materials control, fire protection, fire investigations, and incident command. Explains the employment testing and selection processes of federal, state, municipal, and industrial emergency service organizations. Develops basic emergency skills in hazard recognition, response organization, and fire extinguisher use.

## ENGL 2200

*Intro to Literature*

3 CREDITS

ACADEMIC

Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Uses discussion, lecture, films, videos, and tests.

## ENGR 1000

*Introduction to Engineering*

3 CREDITS

CTE

Introduces engineering-problem-solving techniques, design processes, modelling of simple structural and mechanical systems using CAD, and systems analysis in Excel. Emphasizes engineering design procedures by incorporating group projects and presentations.

## ESEC 1140

*Emergency Medical Technician Basic*

9 CREDITS

CTE

For first semester Fire Science students. Prepares students for certification as an Emergency Medical Technician-Basic through the Utah Bureau of EMS. Includes CPR, automatic defibrillation, patient assessment and treatment, legal issues, airway support, medical and trauma emergencies, emergency childbirth, pediatric emergencies and patient movement/transport.

## ESFF 1120

*Principles of Fire and Emergency Services Safety and Survival*

3 CREDITS

CTE

Introduces the basic principles and history related to the national firefighter life safety initiatives. Focuses on the need for cultural and behavior change throughout the emergency services.

**ESFO 1100***Fire Behavior and Combustion*

3 CREDITS

CTE

Explores the theories and fundamentals of how and why fires start, spread and how they are controlled. Addresses the fire problem in America, background of research, and how to approach the study of fire. Provides an overview of various flames, smoldering, and spontaneous combustion.

**FREN 1020***Beginning French II*

4 CREDITS

ACADEMIC

Completes the first year of study. Includes the remaining grammar, language concepts, and culture, and introduces students to literature in French.

**FREN 3118***Paris, City of Lights*

3 CREDITS

ACADEMIC

Explores the City of Lights through the prism of important themes, including, but not limited to, the arts, history, commerce, technology, sports, etc. Examines course themes through a variety of approaches, such as project based instruction, class discussion, and reaction papers. Taught in French.

**GER 1020***Beginning German II*

4 CREDITS

ACADEMIC

Provides a second-semester introduction to the language and culture of German-speaking countries. Emphasizes listening, speaking, reading, and writing skills along with basic grammar and vocabulary within the cultural context of modern German-speaking societies. Uses an eclectic method of instruction, with extra attention given to oral and written proficiency.

**FIN 1060***Personal Finance*

3 CREDITS

CTE

Designed as elective credit toward a business degree and for individuals interested in acquiring personal financial planning skills. Covers personal financial management with emphasis on decision making, budgeting, financial institutions, personal and family risk management, credit management, and estate planning. Methods include lectures, guest speakers, films, tapes, computer simulations and research. Completers should be able to prepare complete personal budgets and other family financial planning instruments.

**FREN 2010***Intermediate French I*

4 CREDITS

ACADEMIC

Reviews grammar, reading, writing, and conversation skills learned throughout the first year. Introduces readings and discussions on the history, culture, and literature of the French world.

**GEO 1010***Intro to Geology*

3 CREDITS

ACADEMIC

Studies planet earth: its materials, structure, dynamics, and surface features. Taken alone it is designed for non-science students who want a broad introduction to earth science and a greater appreciation of their physical surroundings. Taken in conjunction with laboratory exercises in GEO 1015, the class is sufficiently rigorous to articulate as an introductory geology class.

\*Corequisite GEO 1015

**GER 2010***Intermediate German I*

4 CREDITS

ACADEMIC

Reviews and builds upon the grammar, reading, writing and conversational skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the German speaking world, maintaining a focus on oral proficiency.

## HIST 1700

*American Civilization*

3 CREDITS

ACADEMIC

Stresses movements and developing institutions that are important for an appreciation of American History from the Pre-Colombian period to the present. Discussions include analysis of developing political, economic, and social institutions and their interrelationships with, and impact upon, the geographical features of the land. Includes book reports, oral response, research papers, media presentations and applications to current events.

## HLTH 1300

*Medical Terminology I*

2 CREDITS

CTE

Helps students read and understand the language of medical terminology. Stresses terminology usage and accuracy. Studies elements, abbreviations, spelling, pronunciation, and logic of medical terminology. Includes lectures and audiovisual presentations.

## HM 1110

*Culinary Basics*

3 CREDITS

CTE

Designed for hospitality management majors and as elective credit for other business majors. Explains the techniques and procedures of quality and quantity food production. Studies the selection and preparation of major food products. Provides an extensive set of basic and complex recipes for practice. Includes lectures, lab, visits of guest chefs, and field trips. Completers should be prepared to enter the working field as a prep cook.

## HUM 1010

*Humanities through the Arts*

3 CREDITS

ACADEMIC

Studies the media and compositional elements of the various art forms (literature, music, visual arts, theater, film, dance, and architecture), for greater understanding and enjoyment. Teaches how to interpret artistic meaning by analyzing artworks formally as well as in their historical contexts, such as the predominant subject matters and styles of their period. Encourages students to integrate the arts into their daily lives habitually, so that they become lifelong learners and educators.

## HLTH 1200

*First Aid*

2 CREDITS

CTE

For allied health professions such as nursing, community health, gerontology, radiology, physical therapy, sports medicine, and for other students and community members. Structured to meet National Safety Council First Aid requirements. Successful completers will be certified in First Aid and CPR. Includes lectures, lab with hands-on experience with mannequins, audiovisuals, discussions, and field trips. Provides emergency first aid care training.

## HM 1010

*Introduction to Hospitality Industry*

3 CREDITS

CTE

Designed for hospitality management majors and as elective credit for other business majors. Provides a basic understanding of the lodging and food service industry by tracing the industry's growth and development. Analyzes management's functions and responsibilities in such areas as administration, organization, communications, accounting, marketing, and human relations. Examines industry opportunities and future trends. Includes lecture, field trips, guest speakers, film, and tapes. Completers should have a knowledge of career opportunities and basic hospitality management principles.

## HM 1180

*Food and Beverage Management*

3 CREDITS

CTE

Designed for hospitality management majors and as elective credit for other business majors. Studies management principles of menu planning, purchasing, storage, food and beverage production, service, and sanitation. Includes lecture, case studies, guest speakers, field trip and project. Completers should understand the basic structure of a hospitality unit and how management principles relate to a restaurant.

## IM 2010

*Business Computer Proficiency*

3 CREDITS

CTE

Encompasses two software applications, Microsoft Excel and Microsoft Access, from a business perspective. Covers intermediate level problem solving and production skills. Uses business applications in case study settings to solve problems and accomplish tasks. In company with IM 1010, meets/exceeds the Board of Regent's Business Core Advisory Committee's requirement and the Business Computer Proficiency required by the Woodbury School of Business.

**IM 2800***Integrated Software Projects*

3 CREDITS

CTE

Emphasizes organizing projects, prioritizing tasks, working under time pressures, and dealing with stressful situations. Requires completion of advanced document production in an automated environment using current versions of suite software packages. Course projects stress self-motivation, acceptance of responsibility, critical thinking, and effective decision making. Designed to prepare students majoring in administrative information management to enter the work force, and should be taken at the end of a program in order to grasp the concepts presented and, with little supervision, produce material acceptable on the job.

**INFO 1200***Computer Programming I for IS IT*

3 CREDITS

CTE

Presents concepts of modern computer programming. Emphasizes problem-solving, algorithm development, and programming design. Stresses constructs, data representation, fundamental types and data structures, decision structures, repetition structures, methods, arrays, classes, and objects. Includes testing, debugging, and documentation. Introduces object-oriented, event-driven programming models.

**IT 1510***Intro to System Administration*

3 CREDITS

CTE

Introduces the UNIX Operating System using the popular Linux OS. Explores the Linux file system, Linux administration, OS utilities, and program features and uses. Aids the student in the development, understanding, and working knowledge of the details of the Linux Operating System, memory organization, disk architectures, and demand paged virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices.

**JPNS 1020***Beginning Japanese II*

4 CREDITS

ACADEMIC

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses.

**INFO 1120***Information Systems and Technology Fundamentals*

3 CREDITS

CTE

For allied health professions such as nursing, community health, gerontology, radiology, physical therapy, sports medicine, and for other students and community members. Structured to meet National Safety Council First Aid requirements. Successful completers will be certified in First Aid and CPR. Includes lectures, lab with hands-on experience with mannequins, audiovisuals, discussions, and field trips. Provides emergency first aid care training.

**INFO 2420***Database Fundamentals*

3 CREDITS

CTE

Focuses on the design and construction of Web pages and maintenance of Web sites. Includes foundations in standards-based HTML and CSS. Covers code markup, design concepts and web graphics manipulation, page layout, form development, and usability and accessibility issues. Teaches use of Web authoring tools for code development and site management. Requires individual projects.

**IT 1600***Computer Architecture and Systems Software*

3 CREDITS

CTE

Provides a thorough grounding in computer hardware, system software, and contemporary information system architecture. Examines hardware structure, operating systems theory, and systems software as part of a technical foundation for enterprise systems development and IT infrastructure procurement and management.

**JPNS 2010***Intermediate Japanese I*

4 CREDITS

ACADEMIC

Reviews and builds further language skills upon the grammar, reading, writing, and conversation skills learned in the first year courses.

## MAT 1010

*Intermediate Algebra*

4 CREDITS

ACADEMIC

Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Includes linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra.

## MATH 1050

*College Algebra*

4 CREDITS

ACADEMIC

Includes inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, and the Binomial Theorem.

## METO 1010

*Introduction to Meteorology*

3 CREDITS

ACADEMIC

Introduces the study of our atmosphere. Studies the Earth's dynamic weather systems. Covers structure and compositions of the atmosphere; weather patterns; air masses; and types of weather fronts, weather forecasting, and climates.

## MGMT 1250

*Principles of Leadership*

3 CREDITS

CTE

Required course for integrated studies degree students with an emphasis in leadership. Overviews principles of leadership. Provides students with information on successful leadership styles. Includes lectures, videos, cases, group activities, and class discussion.

## MAT 1030

*Quantitative Reasoning*

3 CREDITS

ACADEMIC

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions.

## MATH 1060

*Trigonometry*

3 CREDITS

ACADEMIC

Includes the unit circle and right triangle definitions of the trigonometric functions, graphing trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, the Law of Sines and the Law of Cosines, vectors, complex numbers, polar coordinates, and rotation of axes.

## MGMT 1010

*Introduction to Business*

3 CREDITS

CTE

Overviews the business world, its structure, procedures, and vocabulary. Provides information to assist in making occupational choices. Methods include lectures, class discussions, group activities, videos, and guest speakers. Completers should have a general knowledge of business and career opportunities.

## MUSC 1010

*Introduction to Music*

3 CREDITS

ACADEMIC

A survey course designed to make music more meaningful. Studies melody, harmony, form, and rhythm together with historical and biographical information.

**MUSC 1030***American Popular Music***3 CREDITS****ACADEMIC**

Studies the emergence, development, and characteristics of American music including Jazz, Blues, Country, Rock, Motown, Hip-Hop, and other popular styles. Examines the contributions of European, African, Latin and other cultural traditions on American popular music. Studies the influences of mass media and technology. Examines the marketing and dissemination of popular music by the music industry. Studies the role of popular music as a symbol of race, class, gender, and generation.

**NUTR 1020***Foundations of Human Nutrition***3 CREDITS****ACADEMIC**

For students interested in various health care professions. Considers basic principles of human nutrition. Studies factors that influence nutritive requirements and maintenance of nutritional balance. Examines relationships between proper nutrition and social, mental and physical well-being.

**PHIL 1000***Introduction to Philosophy***3 CREDITS****ACADEMIC**

Designed to investigate major philosophical ideas from the Pre-Socratic era to the present. Students should develop philosophical skills through supervised analysis of readings in epistemology (knowledge), metaphysics (reality), ethics (values), and social philosophy. Emphasizes the articulation, assessment, and discussion of fundamental religious, social, political issues through class discussions, lectures, media, and writing projects.

**PHIL 205G***Ethics and Values***3 CREDITS****ACADEMIC**

Challenges students to (1) develop knowledge and recognition of complexities inherent in global and intercultural issues, focusing on their ethical and normative dimensions with an emphasis on issues of ethics and values, (2) develop the ability to interrelate knowledgeably, reflectively, responsibly, and respectfully with a society of increasing intercultural connections, (3) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (4) read, study, research, discuss, and write about difficult ethical issues. Focuses on global and intercultural issues with an emphasis on their ethical and normative dimensions. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives as knowledgeable, thoughtful, reflective, responsible, and respectful citizens within a society of increasing intercultural connections.

**MUSC 1110***Basic Music Theory***3 CREDITS****ACADEMIC**

Studies the fundamentals of music theory including elementary harmony, primary and secondary triads with inversions, non-harmonic tones and modulation.

**PES 2400***Sports Injuries***2 CREDITS****ACADEMIC**

Prevention and care of fitness, sport, and physical education performance injuries. Emphasizes the responsibilities of the coach/PE teacher related to sport injuries. Examines recognition, cause, prevention and care of sports related injuries to specific body parts. Explores protective equipment, environmental factors, and nutritional considerations. Reviews injuries which occur to specific populations such as adolescent and elderly athletes.

**PHIL 2050***Ethics and Values***3 CREDITS****ACADEMIC**

Challenges students to (1) explore and clarify their values; (2) critically read works of philosophy, literature, religion, and history toward understanding the basis of their ethical views; and (3) read, study, research, discuss, and write about difficult ethical issues. Focuses on issues of good vs. evil, justice vs. injustice, equality vs. inequality, and the necessity of defining and examining happiness and values. Engages students in serious reflection on issues of ethics and values as they relate to the students' own lives.

**PHSC 1000***Survey of Physical Science***3 CREDITS****ACADEMIC**

Surveys the exciting world of science and explains the basic scientific laws and models by which the physical universe may be understood. Stresses historical aspects and the impact of physical science on modern society. Draws topics from the fields of physics, chemistry, geology, meteorology and astronomy. Uses lectures, dramatizations, audio-visual presentations, and demonstrations.

**PHYS 1010***Elementary Physics*

3 CREDITS

ACADEMIC

For students interested in a one-semester survey physics course. Covers the fundamentals of classical and modern physics. Includes mechanics, fluids, heat, waves and sound, electricity and magnetism, light, optical, relativity, atomic and nuclear physics. Includes lectures, classroom interaction, demonstration, and problem solving.

**POLS 2200***Introduction to Comparative Politics*

3 CREDITS

ACADEMIC

Studies comparative politics and looks at attitudes and causes of political problems. Examines methods and means employed by selected countries to solve political problems, and studies successes and failures of different approaches. Examines the means which different nations employ to deal with political problems. Explores the politics, institutions, and governments of seven selected nations.

**PSY 1100***Human Development Life Span*

3 CREDITS

ACADEMIC

Explores human development from conception and birth to old age and death. Examines growth and developmental patterns and describes the characteristics of various developmental stages. Studies the major physical, cognitive and psychosocial themes and issues of human development. Includes genetics, prenatal development, birth, early/middle/late childhood, adolescence, early/middle/late adulthood, and death.

**SOC 1200***Sociology of the Family*

3 CREDITS

ACADEMIC

Discusses the family in the context of society and its seven sociological institutions: family, media, government, economy, technology, education, and religion. Evaluates how changes in these institutions have facilitated many changes in the structure and function of the modern family. Examines traditional, current, and anticipated definitions of the family using core sociological theory and research tools. Evaluates cultural influence on the family. Focuses on strengthening marriages at the levels of dating, mate selection, marriage, newly wedded adjustment, parenting, finance, proactive family maintenance, and elderly family experiences. Emphasizes the application of one's own life and family experiences while maintaining scientific rigor and critical awareness.

**POLS 1100***American National Government*

3 CREDITS

ACADEMIC

Studies history and structure of American National Government, rights and responsibilities of citizens, political institutions, political processes, and governmental policies.

**PSY 1010***General Psychology*

3 CREDITS

ACADEMIC

An introductory course in modern scientific psychology. Covers major domains of scientific psychology including biological foundations, sensations, perception, learning, motivation, human development and abnormal psychology. Examines major psychological and professional applications.

**SOC 1010***Introduction to Sociology*

3 CREDITS

ACADEMIC

Studies and compares social groups and institutions and their inter-relationships. Includes culture, socialization, deviance, stratification, race, ethnicity, social change, and collective behavior.

**SPAN 1020***Beginning Spanish II*

4 CREDITS

ACADEMIC

Includes the remaining grammar and language concepts, literature, and cultural readings. Uses an eclectic method of instruction, emphasizing conversational exchanges. Conversational lab required.

**SPAN 2010***Intermediate Spanish I*

4 CREDITS

ACADEMIC

Reviews and builds upon the grammar, reading, writing, and conversation skills learned in the first year courses. Introduces readings and discussions on the history, culture, and literature of the Spanish speaking world, maintaining a focus on oral proficiency.

**STAT 1040***Intro to Statistics*

3 CREDITS

ACADEMIC

A quantitative literacy course with a statistical theme. Includes descriptive statistics, sampling, and inferential methods. Emphasizes problem solving and critical thinking.

**THEA 1013***Introduction to Theatre*

3 CREDITS

ACADEMIC

A dynamic introductory course which examines theatre analysis, history, dramatic structure, outstanding dramatic literature, and the various roles in theatre production including the playwright, producer, director, the design team, production staff, house staff, run crew, and publicity. Utilizes lecture, film review, play reading, and live theatre attendance.

**SPAN 3118***Literature and Film: Contemporary Issues*

4 CREDITS

ACADEMIC

\*Course Pending

**TECH 1050***Manufacturing Processes and Systems*

3 CREDITS

CTE

Covers a wide variety of manufacturing processes, including: casting, welding, sheet metal forming, machining, composites fabrication, injection molding, extrusion, thermoforming, rotational molding, and electronics fabrication. Covers understanding of manufacturing systems and all the components required to work together, including: the production system, ERP software system, quality system, business structure, supply chain, and delivery.

**THEA 1023***Introduction to Film*

3 CREDITS

ACADEMIC

Designed to develop the analytical skills necessary for understanding the motion picture - not only as an art form, but as a tool for the statement of ideas. Explores the visual and aural elements employed by movie-makers to influence audiences. Studies context--the historical, social, political, cultural, and artistic situation which produced the film and how it reflects ourselves and our society. Combines lecture, screening, and demonstration with critical discussions of assigned readings and films.