

Course Descriptions

ADULT BASIC EDUCATION

ADULT BASIC EDUCATION PLACEMENT AND PRETESTING

ABE 002 Su, F, W, Sp 1 Credit
7 hours of lecture

REGISTER IN CLASS. Pretesting, assessment, and placement for ABE/GED prep classes. At the conclusion, students will have been assessed in the basic skills of reading, writing and mathematics. THIS COURSE IS A PREREQUISITE TO REGISTRATION IN ALL ABE/GED CLASSES. Students for whom English is not a native language, demonstrated competency at or above ESL level 5 is required.

EDUCATIONAL INTERVIEWING

ABE 003 Su, F, W, Sp 1-3 Credits
30 hours of lecture

An intake class that assesses new students in basic skills levels and learning styles, identifies barriers to student success, and helps student understand Clark College and Basic Education.

ADULT BASIC EDUCATION SPECIAL TOPICS

ABE 005 Su, F, W, Sp 1-10 Credits
80 hours of lecture 40 hours of lab

Monthly seminars conducted by various college and local professionals for the purpose of enhancing the social, personal, and academic skills of the ABE student participant.

ADULT BASIC EDUCATION WRITING I

ABE 011 Su, F, W, Sp 2 Credits
20 hours of lecture

Reading and writing the alphabet; completion of simple forms and sentences; copying basic materials and writing basic word sentences from dictation. Beginning class for basic skills improvement in writing for adult life in the United States. Upon completion of ABE Writing I, students will be able to use writing for basic survival needs and for communication at a beginning literacy level.

ADULT BASIC EDUCATION WRITING II

ABE 012 Su, F, W, Sp 2 Credits
20 hours of lecture

The use of capital letters, punctuation marks, writing addresses, lists, messages and notes and simple sentence construction. Second class for basic skills improvement in writing for adults who are unable to write sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Writing II, students will be able to use writing for basic survival needs and personal communications.

ADULT BASIC EDUCATION WRITING III

ABE 013 Su, F, W, Sp 2 Credits
20 hours of lecture

Writing a variety of complete sentences, expansion of simple sentences to reflect more complex ideas, subject-verb agreement, informal letter composition, simple paragraphs, writing for personal expression using journals and other means as well as use of the dictionary and practice in completing a wide variety of forms. Third class for basic skills improvement in writing for adults who are unable to write sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE III, students will be able to compose a variety of sentences of increasing complexity and be able to construct a simple paragraph.

ADULT BASIC EDUCATION WRITING IV

ABE 014 Su, F, W, Sp 2 Credits
20 hours of lecture

Writing connected paragraphs using correct punctuation, capitalization, usage, spelling and more sophisticated sentence structures. Fourth class for basic skills improvement in writing for adults who are unable to write sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Writing IV, students will be able to compose a variety of complex sentences correctly, write a short report, compose a resume, write a variety of formal letters, proofread and revise writing for clarity and succinctness.

ADULT BASIC EDUCATION MATHEMATICS I

ABE 021 Su, F, W, Sp 2 Credits
20 hours of lecture

Addition and subtraction of single digit whole numbers; comparison and ordering of whole numbers; and place value to thousands. Beginning class for basic skills improvement in math for adults who are unable to compute sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Math I, students will be able to use math for basic survival needs.

ADULT BASIC EDUCATION MATHEMATICS II

ABE 022 Su, F, W, Sp 2 Credits
20 hours of lecture

Additional instruction in place value and whole number operations including multiplication and division, computing averages, estimation, word problems, key words, and life skill math application. Second class for basic skills improvement in math for adult life in the United States. Upon completion of ABE Math II, students will be able to use place values and whole number operations to accomplish a variety of daily tasks.

Adult Basic Education

ADULT BASIC EDUCATION MATHEMATICS III

ABE 023 Su, F, W, Sp 2 Credits
20 hours of lecture

Operations with fractions and decimals including word problems relating to real-life applications as well as competence in using a ruler and introduction of common metric units. Third class for basic skills improvement in math for adults who are unable to compute sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Math III, students will be able to use all operations with fractions and decimals, use rulers as well as common metric measurements to solve problems in everyday life.

ADULT BASIC EDUCATION MATHEMATICS IV

ABE 024 Su, F, W, Sp 2 Credits
20 hours of lecture

Percent, ratio, proportion, simple formulas and common measurement conversions as well as interpretation of and use of graphs and tables. Fourth class for basic skills improvement in math for adults who are unable to compute sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Math IV, students will be able to use the above-stated operations to solve problems in everyday life.

ABE READING FUNDAMENTALS I

ABE 031 Su, F, W, Sp 1 Credit
10 hours of lecture

Phonics, language patterns, and working with contextual written material. Beginning class for basic skills improvement in reading for adults who are unable to read sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Reading I, students will be able to use the above-stated skills at a beginning literacy level.

ABE READING FUNDAMENTALS II

ABE 032 Su, F, W, Sp 1 Credit
10 hours of lecture

Retelling text for literal comprehension, identifying the main idea in short paragraphs, identifying cause/effect and sequencing, the reading and interpretation of simple signs and symbols as well as alphabetization. Second class for basic skills improvement in reading for adults who are unable to read sufficiently well to meet the requirements of adult life in the United States. Upon completion of ABE Reading II, students will be able to use the above-stated skills in everyday life.

ABE READING FUNDAMENTALS III

ABE 033 Su, F, W, Sp 1 Credit
10 hours of lecture

Reading, comprehension and analysis of reading material with a greater emphasis upon word meanings and the structure of paragraphs. Further work on identifying the main idea, distinguishing between fact and opinion, and demonstrating comprehension of a variety of reading materials at a basic level. Third class for basic skills improvement in reading for adults. Upon completion of ABE Reading III, students will be able to use the above-stated skills in everyday life.

ABE READING FUNDAMENTALS IV

ABE 034 Su, F, W, Sp 1 Credit
10 hours of lecture

Reading, comprehension and analysis of various materials by recognition and consideration of main ideas and organization. Evaluate, comprehend and make inferences from a variety of written materials. Fourth class for basic skills improvement in reading for adults. Upon completion of ABE Reading IV, students will be able to use the above-stated skills in everyday life.

BASIC COMPUTER LITERACY & KEYBOARDING

ABE 036 Su, F, W, Sp 1-2 Credits
40 hours of lab

Introduction to keyboarding development, computer terminology, use of software and word processing. Concurrent enrollment in ABE or ESL Level IV or above required.

ABE READING/CONTENT AREAS II

ABE 042 Su, F, W, Sp 1 Credit
10 hours of lecture

Beginning course provides instruction regarding effective reading strategies for use with content areas such as business correspondence, important historical documents, science and social sciences. Prerequisite: Recommended score on placement test.

ABE READING/CONTENT AREAS III

ABE 043 Su, F, W, Sp 1 Credit
10 hours of lecture

Intermediate course provides instruction regarding effective reading strategies for use with content areas such as business correspondence, important historical documents, science and social science. Prerequisite: Successful completion of ABE 032 and 042 or recommended score on placement test.

ADULT BASIC EDUCATION/CONTENT AREAS IV

ABE 044 Su, F, W, Sp 1 Credit
10 hours of lecture

Pre-GED level course provides more advanced instruction regarding effective reading strategies for use with content areas such as business correspondence, important historical documents, science and social sciences. Prerequisite: Successful completion of ABE 033 and 043 or recommended score on placement test.

AGRICULTURE

COMPUTERS IN HORTICULTURE

AG 086 F 2 Credits
10 hours of lecture 20 hours of lab

Introduction to a wide variety of computer software and how it relates to site planning and other areas within the horticulture field. Students learn how to use the software through the research and knowledge gained from field studies, speakers, and/or visits to local city and county offices. Skills learned in this class help the student make logical decisions when designing a landscape and in using computer technology available to them.

PLANT IDENTIFICATION

AG 106 Sp 5 Credits
40 hours of lecture 20 hours of lab

Practice and methods used by florists in house plant care and identification. Common names of plants sold in retail flower shops and greenhouses. Planting dish gardens and terrariums.

FIELD STUDIES IN HORTICULTURE

AG 108 F, Sp 1-4 Credits
10 hours of lecture 60 hours of lab

Design and maintenance of various gardens, examination of comprehensive plant collections. Prerequisite: AG 130 or consent of Instructional Unit.

INTRODUCTION TO HORTICULTURE

AG 130 F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

Vegetable and fruit crops, ornamentals, landscape and horticulture practices, controls, maintenance, basic plant science, growth and development. Field trips required.

DECIDUOUS LANDSCAPE PLANT IDENTIFICATION

AG 135 F 5 Credits
40 hours of lecture 20 hours of lab

Deciduous plant materials. Identification, environmental requirements, growth habits, usage, maintenance and basic problems of ornamental plant materials: trees, shrubs, vines and ground covers.

EVERGREEN LANDSCAPE PLANT IDENTIFICATION

AG 136 W 5 Credits
40 hours of lecture 20 hours of lab

Evergreen plant materials. Identification, environmental requirements, growth habits, usage, maintenance and basic problems of ornamental plant materials: trees, shrubs, vines and ground covers. Prerequisite: AG 135 or consent of Instructional Unit.

FLOWERING LANDSCAPE PLANTS

AG 137 Sp 5 Credits
40 hours of lecture 20 hours of lab

Identification, environmental requirements, growth habits, and landscape use of colorful local flowering trees and shrubs: rhododendrons and azaleas, popular annual and perennial flowers, flowering vines and ground covers.

PLANT PROPAGATION

AG 140 F 5 Credits
40 hours of lecture 20 hours of lab

Sexual and asexual plant reproduction. Seed and cutting production of foliage plants and woody ornamentals. Grafting techniques. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit.

GREENHOUSE MANAGEMENT

AG 150 W 5 Credits
40 hours of lecture 20 hours of lab

Greenhouse management skills. Production of greenhouse potted flowering and foliage plants and winter bedding crops. Greenhouse design, materials, crop scheduling and environmental control. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit.

NURSERY OPERATIONS

AG 155 Sp 5 Credits
40 hours of lecture 20 hours of lab

Buildings, growing structures, equipment, and operations in the wholesale and retail nursery business. Planning, planting schedules, growing and marketing of container and field-grown nursery stock and bedding plants. Students will operate a nursery. Field trips required. Prerequisite: AG 130 or consent of Instructional Unit.

ANIMAL SCIENCE

AG 175 5 Credits
40 hours of lecture 30 hours of lab

Introduction to biological concepts including cellular basis of life, growth and development, genetics, reproduction, nutrition, and disease. Topics will be introduced using domestic animals as examples. This course is intended for nonscience majors and fulfills laboratory science requirements. It is also appropriate for science majors considering related careers, such as veterinary medicine. Concurrent enrollment in conference and lab. Students may not receive credit for both BIOL 104 and AG/BIOL 175.

FRUIT AND VEGETABLE CROPS

AG 185 Sp 5 Credits
40 hours of lecture 20 hours of lab

Fruit and vegetable crops grown in Southwestern Washington. Standard varieties planting, environmental requirements, pests, cultural practices, harvesting, storage and marketing. Field trips may be required. Prerequisite: AG 130 or consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

AG 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in landscaping, grounds maintenance, greenhouse production or nursery stock production, etc. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit.

Agriculture

SOILS

AG 200 F 5 Credits
40 hours of lecture 20 hours of lab

Properties of soils, their origin, development and classification. Application of soil management with appropriate laboratory experience.

TURF MANAGEMENT AND MAINTENANCE

AG 205 W 5 Credits
40 hours of lecture 20 hours of lab

Turf establishment for home lawns, golf course greens and parks. Seeding, sodding, disease, fertilizer programs, insect problems and controls and maintenance. Field trips may be required.

LANDSCAPE DESIGN

AG 210 5 Credits
40 hours of lecture 20 hours of lab

Planning and design of landscape materials in residential and commercial properties. Prerequisite: AG 135, 136, 137, or consent of Instructional Unit.

COMPUTERIZED LANDSCAPE DESIGN

AG 211 W 5 Credits
40 hours of lecture 20 hours of lab

Introduction to Landscape Design using computer aided design programs, including Design Ware, PhotoShop and PowerPoint. Use of color, texture, direction, line and shape in the design process is also covered. Prerequisite: AG 086 or consent of Instructional Unit.

COMPUTERIZED LANDSCAPE DRAFTING

AG 212 Sp 5 Credits
40 hours of lecture 20 hours of lab

Introduction to computer-aided landscape drafting using LandCADD and/or AutoCAD software. Students learn basic landscape design principles in order to draft aerial views and incorporate irrigation systems. Topics include drafting techniques for base plans, site plans and landscape plans, as well as the ability to prepare presentations to show clients. Prerequisite: One of the following: ENGR 114, AG 186, BTEC 149, CSA or CTEC class, or consent of Instructional Unit.

LANDSCAPE MAINTENANCE

AG 220 5 Credits
40 hours of lecture 20 hours of lab

Pruning, grooming, and maintaining landscape trees and shrubs. Cultural operations in annual and perennial flower beds and ground covers. Weed and pest control. Practices, care and use of pruning and hand tools. Business practices in maintenance operations and scheduling. Prerequisite: AG 135 or consent of Instructional Unit.

IRRIGATION MANAGEMENT

AG 240 W 5 Credits
40 hours of lecture 20 hours of lab

Installation and mechanization of irrigation systems for landscape of commercial and residential sites. Drip irrigation. Field trips may be required. Prerequisite: AG 130 or consent of Instructional Unit.

BACKFLOW PREVENTION IRRIGATION

AG 241 5 Credits
40 hours of lecture 20 hours of lab

Approved backflow protection, repair, maintenance, state plumbing codes, installation, test procedures, safety requirements, and upcoming events/knowledge.

LANDSCAPE INSTALLATION

AG 250 Sp 5 Credits
40 hours of lecture 20 hours of lab

Reading and interpreting landscape drawings, grading, leveling and soil preparation. Construction of decks, fences, walkways and other landscape features. Students will work on class and/or individual landscape projects. Field trips may be required. Prerequisite: AG 210 or consent of Instructional Unit.

TISSUE CULTURE

AG 255 W 2 Credits
10 hours of lecture 20 hours of lab

Introduction to tissue culturing: history and botanical basis for tissue culture, preparing media, and media formulas and tissue culture techniques.

ENVIRONMENTAL MANAGEMENT

AG 260 F, Sp 5 Credits
40 hours of lecture 20 hours of lab

Identification of insects, diseases and miscellaneous pests and weeds in ornamentals, vegetable, fruit and greenhouse crops in Western Washington/Oregon. Controls for agricultural plant pests, insecticides, fungicides, herbicides, and soil fumigants. Preparation for public and commercial licenses. Current EPA standards, restrictions and regulations of chemical use. Prerequisite: AG 130 or consent of Instructional Unit.

SPECIAL PROJECTS

AG 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ANTHROPOLOGY

INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY

ANTH 101 F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

The biological study of human beings and primates, past and present: human genetics, biological adaptation and variation, evolutionary principles, the primate order, human origins, and applied biological anthropology. Fulfills social science or laboratory science (lab) distribution credit.

INTRODUCTION TO ARCHAEOLOGY

ANTH 102 F, W, Sp 5 Credits
50 hours of lecture

Study of ancient and prehistoric cultures of the world. Introduction to theories and techniques of archaeological investigation.

INTRODUCTION TO CULTURAL ANTHROPOLOGY

ANTH 103 F, W, Sp 5 Credits
50 hours of lecture

The concept of culture; a study of cultures directed toward a broad understanding of how people view their world, cope with their environments, and organize their lives.

SELECTED TOPICS

ANTH 280 1-3 Credits
30 hours of lecture

Varying topics for anthropology as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

ANTH 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ARCHAEOLOGY FIELD SCHOOL

ANTH 299 Su 9 Credits
10 hours of lecture 160 hours of lab

Archaeological fieldwork experience including: survey and controlled excavation methods; data recording and processing techniques; identification and recording of artifacts and features; limited archaeological laboratory methods; evaluation of the prehistoric human presence. Prerequisite: ANTH 102 and consent of Instructional Unit.

ART

DRAWING I

ART 103 Su, F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Using line and shape effectively. Contour line and gesture. Emphasis on expressive content and accurate seeing.

DRAWING II

ART 104 F 3 Credits
20 hours of lecture 20 hours of lab

Continuation of ART 103. Analysis and control of value, texture and color using a variety of techniques and drawing materials. Emphasis on accurate seeing. Prerequisite: ART 103.

DRAWING III

ART 105 Su, Sp 3 Credits
20 hours of lecture 20 hours of lab

Continuation of ART 104. Creative, critical-analytical, and historic approaches to composition in a variety of media. Prerequisite: ART 104.

DESIGN FUNDAMENTALS I

ART 115 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Foundation art course working with line, shape, value, texture and the principles of spatial organization. Includes designing with computers. For art/photo majors or art related majors.

DESIGN FUNDAMENTALS II

ART 116 W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Continuation of ART 115. Color theory and the application of color to specific design problems. Includes designing with computers. Prerequisite: ART 115.

DESIGN FUNDAMENTALS III

ART 117 Sp 4 Credits
20 hours of lecture 40 hours of lab

Continuation of ART 116. Elementary three-dimensional design using a variety of media to explore volume, space and scale. Prerequisite: ART 116 or consent of Instructional Unit.

BASIC CAMERA I

ART 130 Su, F, W, Sp 2 Credits
20 hours of lecture

Compositions, seeing theory and the use of cameras and related equipment. All work done with color slide film. No darkroom work.

PHOTOGRAPHY I

ART 137 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Introduction to camera handling, film processing, darkroom techniques and composition. Concurrent enrollment in ART 130 (Basic Camera) appropriate but not required.

Art

PHOTOGRAPHY II

ART 138 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Continuation of ART 137. Special darkroom and studio techniques with emphasis on self-expression and print quality. Prerequisite: ART 137 or 140 or consent of Instructional Unit.

PHOTOGRAPHY I

ART 140 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Basic camera handling and darkroom procedures, metering, film processing, printing, and learning to see photographically. All work in black-and-white. Concurrent enrollment in Art 130 suggested.

PHOTOGRAPHY II

ART 141 W 4 Credits
20 hours of lecture 40 hours of lab

Continuation of ART 140. Special darkroom and studio techniques. Introduction to the 4x5 and to computer manipulation of photographs. Particular emphasis on self-expression and print quality. Includes field trips to local galleries. Prerequisite: ART 140 or equivalent or consent of Instructional Unit.

PHOTOGRAPHY III

ART 142 Sp 4 Credits
20 hours of lecture 40 hours of lab

Continuation of ART 141. Opportunities to develop additional technical skill and continued exploration of self-expression. Prerequisite: ART 141 or equivalent.

DIGITAL PHOTOGRAPHY I

ART 145 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Introduction to digital camera operation, image manipulation software use, seeing skills development, and expressive sensitivity. Special emphasis on the elements and principles of photographic composition, ethical issues, aesthetic vocabulary, and the study of how images communicate. Includes lecture, supervised lab, and group critiques. Cameras provided for those without.

DIGITAL PHOTOGRAPHY II

ART 146 W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Digital imagery as self-expression. Refining technical skills, exploring the unique opportunities of the digital medium, and examining current trends via field trips and critiques. Practicing effective small group discussion to demonstrate visual literacy. Prerequisite: ART 145 or both ART 140 and GRCP 120, or permission of Instructional Unit.

ART APPRECIATION

ART 151 Su, F, W, Sp 4 Credits
40 hours of lecture

The visual arts with which we come in contact every day. Ways contemporary and historic creative expression influence present day living and thinking. Personal contact with many art forms. Some hands-on experience. Especially for non-majors.

ART HISTORY

ART 154 F 5 Credits
50 hours of lecture

Historic art forms from Paleolithic (30,000 - 10,000 BC) through the Gothic period (fourteenth century).

ART HISTORY

ART 155 W, Sp 5 Credits
50 hours of lecture

Historic art forms from Proto-Renaissance (fourteenth century) through Rococo (eighteenth century).

ART HISTORY

ART 156 Su, W, Sp 5 Credits
50 hours of lecture

Historic art forms from the late 18th century through the 20th century.

ART HISTORY

ART 157 F 5 Credits
50 hours of lecture

The visual arts and architecture of Africa, the Middle East, India, China, Japan, Oceania, Australia, Pre-Columbian North America, and Pre-Columbian Mexico.

CALLIGRAPHY/LETTERFORMS I

ART 168 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Introduction to letterforms including basic pen-written letters. Includes history of letterforms and the study of spacing and proportion of various single-stroke pen styles.

CALLIGRAPHY/LETTERFORMS II

ART 169 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Further development of letterform skills. History and development of letterforms with emphasis on uncial and book-hand styles. Prerequisite: ART 168.

CALLIGRAPHY/LETTERFORMS III

ART 170 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Study of difficult pen-written letterforms. Particular emphasis on creative and expressive use of layout and writing materials. Prerequisite: ART 169.

TYPOGRAPHY

ART 174 Su, W 3 Credits
20 hours of lecture 20 hours of lab

Introduction to typography and a study of letterforms including the anatomy and history of type faces; the opportunity to explore issues such as letter spacing, legibility and font manipulation particularly on the computer; the creation of original letterforms using brush, stamp, and stencil; and the use of typefaces as design elements in posters, logotypes and on the web. A degree of comfort with computers will be essential to success in this course.

CERAMICS I: POTTERY

ART 177 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Working with clay. Hand-building techniques of pinch, coil, slab and press mold. Introduction to the potter's wheel. Basic glazing techniques.

CERAMICS II: POTTERY

ART 178 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Potters wheel techniques of centering and throwing a variety of shapes, attaching handles and spouts, and fitting lids. Optional advanced hand-building assignments offered. Introduction to kiln stacking and firing. Prerequisite: ART 177.

CERAMICS III: POTTERY

ART 179 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Combining hand and wheel techniques to create original pieces as sculpture or for specific functions. Prerequisite: ART 178.

CERAMICS I: POTTERY

ART 180 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Working with clay. Hand-building techniques of pinch, coil, slab and press mold. Introduction to the potters wheel. Basic glazing techniques.

CERAMICS II: POTTERY

ART 181 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Potters wheel techniques of centering and throwing a variety of shapes, attaching handles and spouts, and fitting lids. Optional advanced hand-building assignments offered. Introduction to kiln stacking and firing. Prerequisite: ART 180.

CERAMICS III: POTTERY

ART 182 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Combining hand and wheel techniques to create original pieces as sculpture or for specific functions. Mold making, slip casting, underglazing, and kiln firing. Prerequisite: ART 181.

METAL ARTS I

ART 189 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Aesthetic expression within the context of applied design using metal. Design and technical skills will be equally emphasized. Fabrication and design of jewelry and other objects of metal. History of the fabrication of metal objects in other cultures.

METAL ARTS II

ART 190 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Continuation of ART 189. Design and technical skills in the raising and forming of metal vessels. Development of metal arts in Europe from the Middle Ages to the present. Prerequisite: ART 189.

METAL ARTS III

ART 191 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Continuation of ART 190. Design and technical skills applied to casting and forging of metal objects. Overview of contemporary metal artists and their work. Prerequisite: ART 190.

COOPERATIVE WORK EXPERIENCE

ART 199 1-5 Credits

Supervised work experience in art or photography. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

THE HUMAN FIGURE I

ART 203 4 Credits
20 hours of lecture 40 hours of lab

Working from the male and female form in media already familiar to the student. Emphasis on accurate seeing. Prerequisite: ART 104 or consent of Instructional Unit.

THE HUMAN FIGURE II

ART 204 4 Credits
20 hours of lecture 40 hours of lab

Working from the male and female form in media already familiar to the student. Emphasis on expressive power and individual development. Prerequisite: ART 203.

HUMAN FIGURE I

ART 206 2 Credits
10 hours of lecture 20 hours of lab

Working from the male and female form in media familiar to the student. Emphasis on seeing skills and appropriate use of media. Includes models of varied body types, races and ages as available. Prerequisite: ART 104 or consent of Instructional Unit.

Art

HUMAN FIGURE II

ART 207 2 Credits
10 hours of lecture 20 hours of lab

Working from male and female figures with a continued emphasis on seeing skills and expressive development. Includes models of varied body types, races and ages as available. Prerequisite: ART 206 or consent of Instructional Unit.

WOMEN IN ART

ART 250 Sp 3 Credits
30 hours of lecture

In-depth look at women artists. Historical survey exploring recurring themes in women's art. Challenges women face in the art world.

PAINTING I

ART 257 F, W 4 Credits
20 hours of lecture 40 hours of lab

Introduction to materials and methods of oil and/or acrylic painting. Includes color theory, canvas stretching, and painting from still-life and portrait. Prerequisite: ART 103.

PAINTING II

ART 258 F, W 4 Credits
20 hours of lecture 40 hours of lab

Continued work with acrylic and oil painting. Emphasis on line, color and pattern as expressive elements. Weekly group discussions. Prerequisite: ART 257.

PAINTING III

ART 259 F, W 4 Credits
20 hours of lecture 40 hours of lab

Continuation of ART 258. Continued development of problem-solving techniques related to composition and a variety of subjects. Prerequisite: ART 258.

WATERCOLOR I

ART 260 Su, Sp 3 Credits
20 hours of lecture 20 hours of lab

Transparent watercolor techniques used to paint from still-life and imagination. Prerequisite: ART 103.

WATERCOLOR II

ART 261 Su, Sp 3 Credits
20 hours of lecture 20 hours of lab

Transparent watercolor techniques used to paint from still-life and imagination. Prerequisite: ART 260.

WATERCOLOR III

ART 262 Su, Sp 3 Credits
20 hours of lecture 20 hours of lab

Transparent watercolor techniques used to paint from still-life and imagination. Prerequisite: ART 261.

GALLERY PREPARATION I

ART 275 F, W, Sp 2 Credits

Various aspects of presenting art exhibits, with emphasis on developing ideas for exhibits and the care and handling of art. Written consent of Instructional Unit required.

GALLERY PREPARATION II

ART 276 F, W, Sp 2 Credits

Concepts for exhibits and preparation of the exhibit space, including preparing fixtures and lighting. Written consent of Instructional Unit required.

GALLERY PREPARATION III

ART 277 F, W, Sp 2 Credits

Gallery preparation of exhibit materials, writing press releases and installation of the student art exhibit. Written consent of Instructional Unit required.

SELECTED TOPICS

ART 280 Su, F, W, Sp 1-3 Credits
30 hours of lecture

Course focuses on selected topics in art. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

ART 290 Su, F, W, Sp 1-3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

WELDED SCULPTURE THEORY I

ART 295 F, W, Sp 1 Credit
10 hours of lecture

Background for students to begin to develop their own language of form. Through the use of a slide/lecture format, students will learn about contemporary sculpture. Discussions include design problems relating to the fabrication of a welded sculpture. Concurrent enrollment in WELD 120.

WELDED SCULPTURE THEORY II

ART 296 F, W, Sp 1 Credit
10 hours of lecture

The design and fabrication of non-representational sculpture. Students will view slides of contemporary work and visit local sculpture sites to improve their understanding of the language of form. The MIG welding process as a sculptural tool will be explored. Concurrent enrollment WELD 121. Prerequisite: ART 295.

WELDED SCULPTURE THEORY III

ART 297 F, W, Sp 1 Credit
10 hours of lecture

The design and fabrication of non-representational sculpture. Students will view slides of contemporary work and visit local sculpture sites to improve their understanding of the language of form. The MIG welding process as a sculptural tool will be explored. Concurrent enrollment in WELD 122. Prerequisite: ART 296.

ASTRONOMY

ASTRONOMY

ASTR 101 F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

Survey of astronomy designed primarily for non-science majors. Includes study of the sun, solar system, stellar evolution, galaxies and cosmology. Evening observation sessions required. Concurrent enrollment in lab required.

AUTOMOTIVE TECHNOLOGY

EMISSION SPECIALIST

AUTO 070 F, W, Sp 4 Credits
40 hours of lecture

Preparation for certification and recertification of state-authorized emission specialists. Covers the emission check program, diagnosis and repair of the emission control system.

ADVANCED EMISSION SPECIALIST

AUTO 071 F, W, Sp 2 Credits
20 hours of lecture

Additional 20 hours of preparation for certification or recertification of state authorized emission specialists. This enhanced training covers vehicle pollution, vehicle emissions five gas analysis, advanced emission control systems, testing procedure, and rules and regulations. To register, contact the Business and Industry Training Center, 992-2615. No tuition. Course fee of \$150.00, includes the textbook. Prerequisite: AUTO 070, or ASE LI certificate.

AUTOMOTIVE BASICS

AUTO 110 F 15 Credits
100 hours of lecture 100 hours of lab

Technical introduction to dealerships and vehicles (Toyota 021). Basic electrical components and systems with emphasis on troubleshooting by application of concepts (Toyota 622). Servicing drum, disc and ABS brake systems and safety (Toyota 552). Prerequisite: Eligibility for DVED 023, READ 087, and ENGL 097.

CHASSIS SYSTEMS

AUTO 120 W 15 Credits
100 hours of lecture 100 hours of lab

Automotive electrical components and systems. Emphasis on body electrical problems using a six-step troubleshooting plan (Toyota 652). Clutch theory and repair. Alignment, steering, and suspension systems, operation, construction, parts identification, diagnosis, and repair procedures (Toyota 452). Air conditioning operation, construction, parts identification, diagnosis, and repair procedures with emphasis on certification, recovery, evacuation, charging, and shop safety. Prerequisite: Grade of "C" or better in AUTO 110 or consent of Instructional Unit.

ENGINE PERFORMANCE

AUTO 130 W 15 Credits
100 hours of lecture 100 hours of lab

Emphasis on engine performance operation, construction, parts, identification, diagnosis, and repair procedures. Basic emission, fuel injection, computer system diagnosis (Toyota 850), and shop safety. Prerequisite: Grade of "C" or better in AUTO 120 or consent of Instructional Unit.

Automotive Baking

AIR CONDITIONING

AUTO 151 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Auto air conditioning including certification, recovery, evacuation and charging, principles of operation, parts identification, parts replacement, service and safety.

COOPERATIVE WORK EXPERIENCE

AUTO 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

DRIVE TRAINS AND ENGINES

AUTO 210 F 15 Credits
100 hours of lecture 100 hours of lab

Mechanical drive train units. Fundamentals of clutches, standard transmissions, differentials, and transaxles. Diagnosis, repair, and rebuilding procedures (Toyota 301), engine operation, construction and parts identification, and shop safety. Prerequisite: AUTO 130 or consent of Instructional Unit.

ADVANCED POWER TRAINS

AUTO 220 W 15 Credits
100 hours of lecture 100 hours of lab

Fundamentals of torque converters, automatic transmissions, automatic transaxles and final drives. Operation, components, diagnosis, repair, and rebuilding procedures (Toyota 262). Advanced electrical systems, operation, construction, parts identification, diagnosis, repair procedures of engine, transmission, brake, suspension, cruise control, air conditioning and body control computers, and shop safety. Prerequisite: Grade "C" or better in AUTO 210 or consent of Instructional Unit.

ADVANCED CHASSIS SYSTEMS

AUTO 230 W 15 Credits
100 hours of lecture 100 hours of lab

Advanced topics of engine performance (Toyota 852), air conditioning (Toyota 750), ABS brake systems, and advanced suspension systems. Operation, components, rebuilding procedures, construction, parts identification, advanced diagnosis, and repair procedures of engine performance, brake, suspension, air conditioning and body control computers, and shop safety. Prerequisite: Grade of "C" or better in AUTO 220 or consent of Instructional Unit.

SPECIAL PROJECTS

AUTO 290 F, W, Sp 1-3 Credits

For automotive majors only. Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

BAKING

BAKING LAB

BAK 110 F 12 Credits
40 hours of lecture 160 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 111 required.

BAKING THEORY

BAK 111 F 6 Credits
60 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 110 required.

BAKING LAB

BAK 112 W 12 Credits
40 hours of lecture 160 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 113 required.

BAKING THEORY

BAK 113 W 6 Credits
60 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 112 required.

BAKING LAB

BAK 114 Sp 12 Credits
40 hours of lecture 160 hours of lab

Practical work experience in fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet-rolls, breads, cookies, pastries, pies and cake making and finishing. Concurrent enrollment in BAK 115 required.

BAKING THEORY

BAK 115 Sp 6 Credits
60 hours of lecture

Materials used in baking and how they relate to one another in the mixing, processing and baking of specific products. Concurrent enrollment in BAK 114 required.

BAKING LAB

BAK 116 Su 12 Credits
40 hours of lecture 160 hours of lab

Practical work experience in the fundamentals of professional baking. Includes the production of a variety of doughnuts, sweet rolls, breads cookies, pastries, pies, and cake making and finishing. Concurrent enrollment in BAK 117 required.

BAKING THEORY

BAK 117 Su 6 Credits
60 hours of lecture

Lectures covering the materials used in baking, how they relate to each other in the mixing and processing of specific products. Lectures include lab demonstrations of each topic. Concurrent enrollment in BAK 116 required.

BEGINNING CAKE DECORATING

BAK 120 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Practical exercises covering cake set-up, filling, trimming, and icing. Basic flower construction including design layout, script borders, cut-out designs, and color wheel.

INTERMEDIATE CAKE DECORATING

BAK 122 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Practical exercises covering cake set-up, filling, trimming, and icing. The making and designing of a variety of flowers and borders. Script, stencils, piping, gel transfers, design perspective, image projection, and the use of air brushes.

ADVANCED CAKE DECORATING

BAK 124 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Wedding cake set-up and construction. Borders for wedding cakes. Make orchids and other flowers to compliment special design cakes. Piping of comic-type figures.

PASTRY ART

BAK 126 W 3 Credits
20 hours of lecture 20 hours of lab

Basic course for the beginning pastry chef. Topics include custards, ice creams, specialty sauces, meringues, pate choux, Bavarians, candies, holiday desserts, and individual plated desserts.

COOPERATIVE WORK EXPERIENCE

BAK 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved program-related job. Completing specific learning objectives and gaining valuable industry knowledge enhances choice of future employment opportunities. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

BAKING LAB

BAK 210 F 12 Credits
40 hours of lecture 160 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 211 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116.

BAKING THEORY

BAK 211 F 6 Credits
60 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 210 required. Prerequisite: Three quarters of BAK 111, 113, 115, or 117.

BAKING LAB

BAK 212 W 12 Credits
40 hours of lecture 160 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 213 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116.

BAKING THEORY

BAK 213 W 6 Credits
60 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 212 required. Three quarters of BAK 111, 113, 115, or 117.

BAKING LAB

BAK 214 Sp 12 Credits
40 hours of lecture 160 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 215. Prerequisite: Three quarters of BAK 110, 112, 114, or 116.

BAKING THEORY

BAK 215 Sp 6 Credits
60 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 214. Prerequisite: Three quarters of BAK 111, 113, 115 or 117.

BAKING LAB

BAK 216 Su 12 Credits
40 hours of lecture 160 hours of lab

Practical instruction in bakery management, working at various baking stations. Concurrent enrollment in BAK 217 required. Prerequisite: Three quarters of BAK 110, 112, 114, or 116.

BAKING THEORY

BAK 217 Su 6 Credits
60 hours of lecture

Introduction and group discussions regarding management and merchandising of a bakery. Concurrent enrollment in BAK 216 required. Prerequisite: Three quarters of BAK 111, 113, 115 or 117.

SPECIAL PROJECTS

BAK 290 Su, F, W, Sp 1-12 Credits

Opportunity to plan, organize and complete individualized special projects approved by the department.

BIOLOGY

BIOLOGY PRACTICUM

BIOL 011 Su, F, W, Sp 1-10 Credits
200 hours of lab

Laboratory work for selected biology courses. Concurrent enrollment in BIOL 161, 231, 232, or 233 required.

ENVIRONMENTAL BIOLOGY

BIOL 101 Su, F, W, Sp 5 Credits
40 hours of lecture 30 hours of lab

Overview of basic concepts and issues related to the interaction between humans and their environment. Topics include population growth, loss of biodiversity, global climate change, ozone depletion, energy consumption and various types of pollution. This course is intended for non-majors and fulfills the laboratory science distribution requirement. It is also required for WSU-Vancouver Environmental Science/Regional Planning majors.

GENERAL BIOLOGY

BIOL 104 Su, F, W, Sp 5 Credits
40 hours of lecture 30 hours of lab

Overview of basic concepts and issues in biology including the cellular basis of life, metabolism, principles of inheritance, evolution and diversity. Strong emphasis on the process of scientific inquiry using critical thinking and communication abilities. This course is intended for non-biology majors and fulfills the laboratory science requirements or as a recommended course for other biology courses. English writing skills are highly recommended. Required for psychology majors. Students may not receive credit for both BIOL 104 and AG/BIOL 175.

INTRODUCTION TO WILDLIFE

BIOL 139 F, Sp 3 Credits
30 hours of lecture

Wildlife conservation and management in the U.S. and throughout the world. Examines the social and political aspects of wildlife conservation and management, challenges to management of biodiversity, wildlife population management, and ecosystem management.

MAMMALS OF THE PACIFIC NORTHWEST

BIOL 140 F, W 3 Credits
30 hours of lecture

Important mammals of the Pacific Northwest. Their identification, classification, life histories, ecology, current status, and management.

BIRDS OF THE PACIFIC NORTHWEST

BIOL 141 W 3 Credits
30 hours of lecture

Important Birds of the Pacific Northwest. Their identification, classification, life histories, ecology, current status, and management.

FRESHWATER FISHES OF THE PACIFIC NORTHWEST

BIOL 142 F, Sp 3 Credits
30 hours of lecture

Important fishes of the Pacific Northwest. Their identification, classification, life histories, ecology, current status and management. Overview of factors affecting salmon in the Columbia River basin.

INTRODUCTION TO FORESTRY

BIOL 143 Sp 3 Credits
30 hours of lecture

A forest management course including the structure and function of trees, soils, forest ecology, forest insects and diseases, timber management, fire management, and forest economy.

MARINE BIOLOGY

BIOL 144 W 3 Credits
30 hours of lecture

The marine environment (physical and chemical properties), its plants, bacteria, animal life (vertebrates, invertebrates), ecosystems, fisheries and pollution.

REPTILES AND AMPHIBIANS OF THE PACIFIC NORTHWEST

BIOL 145 Sp 3 Credits
30 hours of lecture

Introduction to the biology, ecology, evolution, and geographic distribution of Pacific Northwest reptiles and amphibians.

HUMAN BIOLOGY

BIOL 160 Su, F, W, Sp 4 Credits
40 hours of lecture

The structure and function of the human body as it relates to homeostasis, health, disease and the environment. Concepts to be covered include human organization, processing, transporting, integration/coordination, reproduction, genetic, and evolution/ecology. Can be used as a science distribution requirement. Concurrent enrollment in BIOL 161 recommended.

HUMAN BIOLOGY LAB

BIOL 161 Su, F, W, Sp 1 Credit
30 hours of lab

Laboratory study of the structure and function of the human body as it relates to homeostasis, health, disease, and the environment. Concurrent enrollment in, or completion of BIOL 160, and concurrent enrollment in BIOL 011, for one credit required.

HUMAN GENETICS

BIOL 162 F, Sp 3 Credits
30 hours of lecture

Overview of fundamental genetic principles and their applications. Topics may include genetic engineering, genetic counseling, gene therapy and forensic sciences.

ANIMAL SCIENCE

BIOL 175 Su 5 Credits
40 hours of lecture 30 hours of lab

Introduction to biological concepts including cellular basis of life, growth, and development, genetics, reproduction, nutrition, and disease. Topics will be introduced using domestic animals as examples. This course is intended for nonscience majors and fulfills laboratory science requirements. It is also appropriate for science majors considering related careers, such as veterinary medicine. Students may not receive credit for both BIOL 104 and AG/BIOL 175.

BIOETHICS

BIOL 180 F, W, Sp 3 Credits
30 hours of lecture

Study of biological science and ethics. Ethical principles and theories are used in solving bioethical dilemmas. Concepts studied include genetic engineering, inherited disorders, cloning, physician assisted suicide, allocation of health resources, organ donation, and environmental ethics.

COOPERATIVE WORK EXPERIENCE

BIOL 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

EVOLUTION AND ECOLOGY

BIOL 201 F, W 5 Credits
40 hours of lecture 30 hours of lab

First course of three introductory courses for life science majors. Covers Mendelian genetics, evolution, adaption, speciation, biodiversity, and ecology. Prerequisite: Completion of or concurrent enrollment in CHEM 100 or 111 or 131.

BIOCHEMISTRY, MOLECULAR GENETICS, AND DEVELOPMENT

BIOL 202 W, Sp 5 Credits
40 hours of lecture 30 hours of lab

Second course of three introductory courses for life science majors. Includes organic chemistry, cell structure, DNA structure and replication, gene expression, cell division, organismal development, molecular genetics and biotechnology. Prerequisite: Completion of BIOL 201 with a grade of "C" or better.

ANIMAL AND PLANT PHYSIOLOGY

BIOL 203 Su, Sp 5 Credits
40 hours of lecture 30 hours of lab

Third course of three introductory courses for life science majors. Covers the physiology of major animal and plant organ systems. Prerequisite: Completion of BIOL 201 with a grade of "C" or better.

FIELD STUDIES IN BIOLOGY

BIOL 208 W, Sp 1-10 Credits
20 hours of lecture 160 hours of lab

For students interested in biology. An ecological approach with a diversity of habitats being visited (marine in W; Great Basin Desert and marsh lands in Sp). Credits for BIOL 208 are accumulated for each trip with a total of 15 credits possible for all trips. Prerequisite: Completion of a 100- or 200-level biology course, or consent of Instructional Unit.

FLOWERING PLANTS OF THE PACIFIC NORTHWEST

BIOL 224 Sp 5 Credits
40 hours of lecture 30 hours of lab

Identification and ecology of local wildflowers through the use of taxonomic keys, preparation of specimens and field trips to study native species in their habitats.

HUMAN ANATOMY AND PHYSIOLOGY I

BIOL 231 F, W, Sp 4 Credits
30 hours of lecture 30 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in Nursing, Dental Hygiene, and other related life science fields (Pre-Chiropractic, Pre-Optometry...) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive system, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance. National standardized final exam. Concurrent enrollment in BIOL 011 for one credit and BIOL 231L required. Prerequisite: A grade of "C" or better in BIOL 104 or 160/161, or BIOL 204 or CHEM 111 or 131 or consent of Instructional Unit.

HUMAN ANATOMY AND PHYSIOLOGY II

BIOL 232 Su, W, Sp 4 Credits
30 hours of lecture 30 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in Nursing, Dental Hygiene, and other related life science fields (Pre-Chiropractic, Pre-Optometry...) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive system, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance. National standardized final exam. Concurrent enrollment in BIOL 011, for one credit and BIOL 232L required. Prerequisite: A grade of "C" or better in BIOL 231 or written consent of Instructional Unit.

HUMAN ANATOMY AND PHYSIOLOGY III

BIOL 233 Su, F, Sp 4 Credits
30 hours of lecture 30 hours of lab

The structure and function of the human body. How it can adjust to changes in the internal and external environment. For students in nursing, dental hygiene, and other related life science fields (prechiropractic, preoptometry, etc.) or as a life science for non-biology majors. Terminology, cell, protein synthesis, DNA replication, tissues, integumentary system, skeletal system, articular system, muscular system, nervous system, endocrine system, reproductive system, circulatory system, digestive system, respiratory system, and urinary system. Electrolyte balance. National standardized final exam. Concurrent enrollment in BIOL 011 for one credit and BIOL 233L required. Prerequisite: A grade of "C" or better in BIOL 232 or consent of Instructional Unit.

MICROBIOLOGY

BIOL 240 Su, F, W, Sp 5 Credits
40 hours of lecture 30 hours of lab

History of microbiology and a survey of organisms included in the study of microbiology with emphasis on bacteria. Physiology, morphology, genetics, growth and reproduction of bacteria. Experiments stress lab techniques and organisms that are a factor in clinic and hospital environments. Prerequisite: CHEM 111 or 131.

HUMAN CADAVER DISSECTION

BIOL 275 F, W, Sp 1-6 Credits
20 hours of lecture 120 hours of lab

Dissection of the muscular, circulatory, nervous, digestive and reproductive systems.

SELECTED TOPICS

BIOL 280 1-5 Credits
50 hours of lecture

Selected topics in Biology. Topics vary, and course contents change to reflect new topics. Because the course varies in content it is repeatable for credit for different topics.

SPECIAL PROJECTS

BIOL 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by department. Prerequisite: Written consent of Instructional Unit.

BUSINESS ADMINISTRATION

BASIC ACCOUNTING PROCEDURES

BUS 028 Su, F, W 3 Credits
30 hours of lecture

Introduction to the fundamental bookkeeping functions of the double-entry accounting process. Preparation of financial information for a business or organization including the basic accounting equation, preparation of business and financial transactions, journalizing, posting, making adjustments, preparing the worksheet, preparing financial statements from the worksheet, and accounting for cash.

BASIC ACCOUNTING PROCEDURES

BUS 029 W, Sp 3 Credits
30 hours of lecture

Continuation of BUS 028. Valuation of inventories, depreciation, tax reports, payroll accounting and preparation of financial statements. Emphasis on merchandising business. Prerequisite: BUS 028.

ACCOUNTING APPLICATIONS

BUS 036 Sp 2 Credits
20 hours of lecture

Accounting procedures applied to business simulations; includes payroll, depreciation of fixed assets, budgeting, maintaining sales and purchase records and preparing financial statements. Prerequisite: BUS 029 or consent of Instructional Unit.

INTRODUCTION TO BUSINESS

BUS 101 F, W, Sp 5 Credits
50 hours of lecture

Learn about the business functions of management, human resources, marketing, law, computers, accounting, finance, production, small business and international business.

CUSTOMER SERVICE

BUS 110 F 3 Credits
30 hours of lecture

Learn how to bring the customer into the center of your organization. Understand the principles and practices of customer relations. Study the history of consumerism and customer relations departments. Learn how to develop customer service skills, identify and respond to customer needs, improve skills in giving information, deal with difficult customers, and develop a positive customer relations climate.

SMALL BUSINESS MANAGEMENT

BUS 115 Su, F, W, Sp 3 Credits
30 hours of lecture

Strategic, financial, and managerial considerations in building and maintaining a small business. Purchase, location, and layout of a new business. Controlling finances, purchasing, personnel, inventory, pricing, and legal environment emphasized.

MERCHANDISING MANAGEMENT

BUS 116 W 3 Credits
30 hours of lecture

Retail buying and merchandising functions, negotiation techniques, management of incoming merchandise and inventory, mathematics of merchandising, analysis of vendor performance and sales personnel, creating a merchandising plan, and sales forecasting.

ADVERTISING

BUS 117 Sp 3 Credits
30 hours of lecture

Examines the problems faced by advertisers and their agencies, along with the policies and procedures for solution; development of advertising objectives and strategies, selection of media, determination of budgeting methods, and preparation of copy and layout for effective results. Credit not allowed for both BUS 117 and BUS 217.

COMPUTERIZED ACCOUNTING

BUS 130 Sp 5 Credits
50 hours of lecture

Computerized accounting techniques in the basic areas of financial accounting, including the processes of analyzing, recording, reporting and interpreting accounting data in a business environment. A systems approach with real world applications of the general ledger, accounts receivable, accounts payable, purchase, cash receipts, accounting for sales, payroll, and month and year-end closing for both a service and a merchandising business. Prerequisite: BUS 028 and 029 or BUS 231.

HUMAN RESOURCE MANAGEMENT FOR THE SMALL BUSINESS

BUS 132 W 1 Credit
10 hours of lecture

Human resource management for the moderately small business with emphasis on hiring, training, and employee performance review.

FEASIBILITY PLAN

BUS 133 F 1 Credit
10 hours of lecture

Learn how to create a feasibility plan. An introduction to the concepts of building a feasibility plan. The purpose for which feasibility plans are developed, audiences, format design, updating, and presenting will be topics of discussion. The importance of maintaining flexibility and advantages of computer usage are demonstrated. Previous business or business planning experience may be useful but is not required. Emphasis is on building familiarity with creation, refinement, research, and techniques used, goals to be achieved, through use of a "hands-on" interactive approach to feasibility plans.

BUSINESS PLAN

BUS 135 Sp 3 Credits
30 hours of lecture

An introduction to building a business plan that incorporates a promotional plan. Plan purpose, audience, design, format, and presentation will be considered. Previous business planning experience useful but not required. Plans will incorporate a "hands-on" interactive approach.

PERSONAL FINANCE

BUS 160 F, W, Sp 5 Credits
50 hours of lecture

Buying insurance (life, health, property, and auto), buying and financing a home, minimizing Federal income tax, borrowing, saving, and investing.

PERSONAL INVESTMENTS

BUS 171 F, W, Sp 2 Credits
20 hours of lecture

Classification and analysis of various kinds of securities, managing a sound investment program, and mechanics of the stock exchange.

COOPERATIVE WORK EXPERIENCE

BUS 199 Su, F, W, Sp 1-5 Credits

Up to 5 credits for supervised work training in an approved job. Completion of, or concurrent enrollment in BTEC 147 or HDEV 195, 198, or 200 required. Prerequisite: Completion of one class with a "C" or better in Business, Economics or Management. Written consent of Instructional Unit required.

DESCRIPTIVE STATISTICS

BUS 203 F, W 3 Credits
30 hours of lecture

Application of statistics to practical business problems. Includes summarizing and presenting data in tables and graphs, calculating and using common descriptive statistics, determining probabilities, and using the binomial, Poisson, and normal probability distributions. Prerequisite: MATH 095 or equivalent or consent of Instructional Unit.

INFERENCE STATISTICS

BUS 204 W, Sp 3 Credits
30 hours of lecture

Inferential statistics applied to business and economic problems including point and interval estimation, sampling, the normal t, f- and chi-square distributions, analysis of variance, correlation, simple and multiple regression and decision making. Prerequisite: BUS 203 or MATH 203 or consent of Instructional Unit.

Business Administration

BUSINESS COMMUNICATIONS

BUS 211 F, W, Sp 3 Credits
30 hours of lecture

Written and oral business communications, particularly letters, memoranda, telegrams, and other messages. Same as ENGL 212. Prerequisite: ENGL 101 or consent of Instructional Unit.

PRINCIPLES OF ADVERTISING

BUS 217 Sp 5 Credits
50 hours of lecture

Historic, social, environmental and legal aspects of advertising. The client, agency and consumer. Strategies for marketing, research, positioning and advertising. Development of the media plan and types of media. Creative strategy and execution. Credit not allowed for both BUS 117 and BUS 217.

BUSINESS LAW

BUS 224 Su, F, W, Sp 5 Credits
50 hours of lecture

Practical applications of the law of contracts, agency, employment, real and personal property, and bailments in the business world and in one's personal affairs. Legal reasoning and illustrative case problems. Prerequisite: Sophomore standing or consent of Instructional Unit.

PRINCIPLES OF ACCOUNTING

BUS 231 F, W 5 Credits
50 hours of lecture

Accounting theory and practice including the entire accounting cycle, the structure and interpretation of accounts and financial statements with applications to managerial decisions. Prerequisite: Eligibility for ENGL 101 and MATH 095 or consent of Instructional Unit.

PRINCIPLES OF ACCOUNTING

BUS 232 W, Sp 5 Credits
50 hours of lecture

Continuation of BUS 231 with emphasis on payroll, partnership and corporation accounting, statement of cash flow, analysis and interpretation of financial statements. Prerequisite: A grade of "C" or better in BUS 231.

MANAGERIAL ACCOUNTING

BUS 233 F, Sp 5 Credits
50 hours of lecture

Continuation of BUS 231 with emphasis on responsibility and departmental accounting, manufacturing operations, cost accounting, budgeting and standard costs, cost-volume-profit analysis, incremental analysis and capital budgeting. Prerequisite: A grade of "C" or better in BUS 231.

PROFESSIONAL SELLING

BUS 251 F 3 Credits
30 hours of lecture

The selling profession, climate and environment. Rejection handling. Prospecting, qualifying, overcoming objections and closing. Personal, retail, and organizational selling.

PRINCIPLES OF MARKETING

BUS 260 Sp 5 Credits
50 hours of lecture

Marketing history and environment. Market evaluation, research and segmentation. Behavior of consumer and organizational buyers. Product research, development, and management. Planning and decision making for product distribution, promotion and pricing. Marketing management.

SELECTED TOPICS

BUS 280 F, W, Sp 1-5 Credits
50 hours of lecture

The course focuses on selected topics in Business. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules.

SPECIAL PROJECTS

BUS 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

BUSINESS MATHEMATICS

FUNDAMENTALS OF BUSINESS MATHEMATICS

MATH 065 Su, F, W, Sp 5 Credits
50 hours of lecture

Application of mathematics to common business situations. Emphasis is on practical applications and problem-solving skills for the business professional as well as the consumer and investor. Prerequisite: A grade of "P" in DVED mathematics or recommending score on placement test.

BUSINESS TECHNOLOGY

SPEED AND ACCURACY BUILDING

BTEC 010 Su, F, W, Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Emphasis will be placed on correct techniques and appropriate drills to improve speed and accuracy. Prerequisite: BTEC 102 or consent of Instructional Unit.

MATH FOR MEDICAL OFFICE ADMINISTRATORS

BTEC 040 F, W 1 Credit
10 hours of lecture

Covers basic mathematical concepts related to administrative responsibilities in the medical office. Prerequisite: Qualifying score on the college numerical skills placement for MATH 030 or higher or consent of Instructional Unit.

COMPUTER BASICS

BTEC 050 Su, F, W, Sp 2 Credits
20 hours of lecture

An introductory course for students who have very limited or no prior experience. An overview of computer usage including basic operating skills, creating documents using word processing, storing and organizing documents on disk, using E-mail and Internet.

SPELLING SKILLS

BTEC 082 F, W, Sp 1-2 Credits
20 hours of lecture

Review and development of spelling skills. Continuous enrollment, individualized program.

APPLIED OFFICE ENGLISH

BTEC 087 F, W, Sp 3 Credits
30 hours of lecture

Review and development of fundamental skills in grammar, word usage, sentence structure, and punctuation. Practice in basic writing skills for business letters and memorandums. Prerequisite: DVED 094 or recommending score on the college writing skills placement test for ENGL 097.

TYPING/KEYBOARDING LAB

BTEC 100 Su, F, W, Sp 1-3 Credits
10 hours of lecture 40 hours of lab

All keyboarding courses (BTEC 101, 102, and 190) are taught as individualized instruction through self-paced study. Students register for BTEC 100. At the end of the quarter, registration will automatically be changed to the appropriate course(s). A student earns from 1 to 3 credits in a course depending on the number of lessons and test successfully completed. All levels of keyboarding are taught on micro-computers.

Business Technology

BEGINNING KEYBOARDING

BTEC 101 Su, F, W, Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Introduction to keyboard, development of speed and accuracy and basic keyboarding applications - simple letters, memos, tables, and reports. For students who have had no previous keyboarding instruction. Register for BTEC 100. At the end of the quarter, registration will automatically be changed to the appropriate course(s). This course is taught on microcomputers.

DOCUMENT FORMATTING

BTEC 102 Su, F, W, Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Business letters, tables, electronic forms, use of templates, and report keyboarding on a production basis. Further development of speed and accuracy. Continuous enrollment, flexible times, individual program. Register in BTEC 100. At the end of the quarter, registration will automatically be changed to the appropriate course(s). This course is taught on microcomputers. Prerequisite: BTEC 101, or 190, and BTEC 122 or consent of Instructional Unit.

BEGINNING COMPUTER FUNDAMENTALS

BTEC 105 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to basic operating skills using keyboard and mouse, how to operate a computer system using Windows, manage files/folders on disk, create documents using word processing, make spreadsheets and presentations, access databases, send and receive email including attachments, locate information on the internet, and learn the various components of the computer.

BUSINESS ENGLISH

BTEC 107 W 5 Credits
50 hours of lecture

Correct English - grammar, usage, punctuation, vocabulary, and sentence structure. Prerequisite: BTEC 087 or recommending score on the college writing skills placement test for ENGL 101.

MEDICAL TERMINOLOGY I

BTEC 110 F, W 3 Credits
30 hours of lecture

Introduction to medical word building with common medical roots, prefixes and suffixes. Study of terms related to the body as a whole, as well as terms related to human anatomy, pathology, diagnostic tests, clinical procedures, and abbreviations associated with each body system. Medical Terminology I covers the following body systems: digestive, urinary, reproductive, nervous, and cardiovascular. Course work will include spelling and pronunciation of terms.

MEDICAL TERMINOLOGY II

BTEC 111 W, Sp 3 Credits
30 hours of lecture

Continuation of Medical Terminology I, BTEC 110. Study of common medical roots, prefixes and suffixes and terms related to human anatomy, physiology, pathology, diagnostic tests, clinical procedures, and abbreviations associated with each body system. Medical Terminology II covers the following body systems: respiratory, blood, lymphatic, immune, musculoskeletal, integumentary, sense organs (eyes and ears), endocrine, as well as psychiatry. Course work will include spelling and pronunciation of terms. Prerequisite: BTEC 110.

INTRODUCTION TO THE STUDY OF DISEASE

BTEC 112 Su, Sp 3 Credits
30 hours of lecture

Introduction to diseases explores the cause, signs and symptoms, diagnosing, treatment and prognosis of common diseases. Study includes the disease process, infectious disease, neoplasms, congenital disease, pain management, holistic medicine and diseases by body system. Prerequisite: Completion of, or concurrent enrollment in BTEC 111 required or consent of Instructional Unit.

MEDICAL OFFICE ADMINISTRATIVE PROCEDURES

BTEC 115 F, W 6 Credits
50 hours of lecture 20 hours of lab

Introduction to the principles, procedures and practice standards of the administrative medical assistant. Study includes: medical reception, telephone reception, appointment scheduling, patient information management, medical record content, quality improvement methods, purchasing office equipment, billing, collecting, medical office accounting, banking procedures, office management, coordination of meetings, and making travel arrangements. The course involves prioritizing work, time management and working as a team member on team projects. Concepts of administrative medical assisting are presented in the class and students will have the opportunity to demonstrate mastery of the competencies. Completion of or concurrent enrollment in BTEC 040 and 110 required or consent of Instructional Unit. Prerequisite: BTEC 040.

WORD FOR BUSINESS

BTEC 122 F, W, Sp 5 Credits
50 hours of lecture

Producing letters, memos, and tables using fonts, tabs, tables, numbered and bulleted text, thesaurus, and grammar-check. Reports and longer documents will be created using columns, page numbers, footnotes, endnotes, headers, and footers. Form letters using mailing lists, envelopes, mailing labels, and standard paragraphs will be assembled. Styles, flyers and newsletters with graphics are included. Prerequisite: BTEC 101 or 190, or consent of Instructional Unit.

INTRODUCTION TO WORD

BTEC 125 F, Sp 3 Credits
30 hours of lecture

Creating, formatting, editing, saving and printing documents using fonts, numbered and bulleted text tables, tabs, columns, thesaurus, grammar-check. Reports and longer documents will be created using columns, page numbers, footnotes, endnotes, headers and footers, form letters using mailing lists, envelopes, mailing labels, and standard paragraphs will be assembled. Styles, Table of Contents, Indexes.

MEDICAL INSURANCE

BTEC 129 F, Sp 3 Credits
30 hours of lecture

Introduction to medical insurance including diagnostic coding, procedural coding and forms completion for processing medical claims. Specific discussion of Blue Cross/Blue Shield, Medicare/Medicaid/Medical, Champus/Champva and Workers' Compensation. Prerequisite: BTEC 110 and 111 or consent of Instructional Unit.

MEDICAL CODING - CPT/HCPCS

BTEC 130 Sp 3 Credits
30 hours of lecture

Instruction on the structure, conventions, rules, and guidelines pertaining to CPT/HCPCS coding. The course will include practice in the use of the coding systems to give the student knowledge and experience to be able to code confidently in physician practices and ambulatory care facilities. Descriptions of Coding as a part of the medical reimbursement process and related legal and ethical issues will be included. Prerequisite: Completion of, or concurrent enrollment in, BIOL 1MI OR BIOL 160 OR HEOC 100 and BTEC 110 or consent of Instructional Unit.

FILING AND RECORDS MANAGEMENT

BTEC 131 F, W 3 Credits
30 hours of lecture

Principles and procedures of records storage and control including record cycle, microrecords, and electronic files. Selection of equipment and supplies. Practice in using indexing rules, coding, and filing for alphabetic, numeric, geographic, and subject filing systems.

MEDICAL CODING ICD-9-CM

BTEC 132 W 3 Credits
30 hours of lecture

Introduction to the conventions, guidelines, and principles of the International Classification of Diseases used in coding diseases and inpatient procedures. Practical medical coding experience are included.

MEDICAL OFFICE SEMINAR

BTEC 134 F, W 1 Credit
10 hours of lecture

Overview of student success strategies, library resources, the health care delivery system in the United States and the various employment opportunities in medical office occupations including discussion of job requirements and responsibilities.

10-KEY CALCULATOR

BTEC 135 F, W, Sp 1 Credit
5 hours of lecture 10 hours of lab

Ten-key by touch using a business-size electronic calculator. Training on operational features of modern business calculators incorporating business applications.

BUSINESS CALCULATORS

BTEC 136 F, W, Sp 5 Credits
50 hours of lecture

Understanding of basic math concepts, decimals, and percents, as applied to electronic printing calculators. Application to business problems including discounts, pricing, depreciation, credit, ratios, and investments. Development of speed and accuracy on the 10-key pad.

THERAPEUTIC COMMUNICATION SKILLS FOR HEALTH PROFESSIONALS

BTEC 137 Sp 3 Credits
30 hours of lecture

Techniques for encouraging a therapeutic and helping relationship with the client/patient. Includes an overview of the psychosocial development of a person, from birth to death.

LEGAL ASPECTS OF THE MEDICAL OFFICE

BTEC 138 F, W, Sp 2 Credits
20 hours of lecture

Introduction to medical, law, ethics and bioethics. Topics will include: ethics and bioethics in the practice of medicine, professional codes of ethics, an introduction to law, legal guidelines and the practice of medicine including professional liability, public duties, consents, advance directives, anatomy of a malpractice case, legal aspects of medical records, confidentiality and the release of patient information, patient access to their own medical records, and responding to a subpoena duces tecum of medical records.

CMA EXAMINATION REVIEW SEMINAR

BTEC 139 Su, W 1 Credit
10 hours of lecture

Review of Medical Assistant administrative and clinical competencies including anatomy and physiology, medical terminology and legal aspects. Discussion of studying and test taking techniques to prepare for Medical Assistant Certification examination. Concurrent enrollment in BTEC 166 or consent of Instructional Unit. Prerequisite: BTEC 110, 111, 163, 164, BIOL 160.

Business Technology

BUSINESS TECHNOLOGY SEMINAR

BTEC 141 F 2 Credits
20 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199. Prerequisite: Written consent of Instructional Unit required.

BUSINESS TECHNOLOGY SEMINAR

BTEC 143 W 2 Credits
20 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199 required. Prerequisite: Consent of Instructional Unit.

BUSINESS TECHNOLOGY SEMINAR

BTEC 145 Sp 2 Credits
20 hours of lecture

Problems, methods, procedures, and human relations related to on-the-job work experience in business. Concurrent enrollment in BTEC 199 required. Prerequisite: Consent of Instructional Unit.

PROFESSIONAL SELF-DEVELOPMENT

BTEC 147 F, W, Sp 2 Credits
20 hours of lecture

Professional concepts applied to individuals in the business world in relating to themselves, the companies they represent, and the public they serve. For employed or prospective employees who wish to improve their professional relations and growth potential.

MICROCOMPUTER APPLICATION ESSENTIALS

BTEC 149 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to common business applications software. This course provides both an overview of and hands-on experience with using word processing, spreadsheet, presentation, and database software. Produce routine documents, build spreadsheets with formulas, create graphs using spreadsheet data, and store and access information in databases, effective use of windows to manage files and disks. Use of technology to increase productivity in the world of work.

MICROCOMPUTER BUSINESS APPLICATIONS

BTEC 150 Su, F, W, Sp 5 Credits
50 hours of lecture

Overview and hands-on experience using microcomputer business applications software to create business documents and solve business problems. Lecture, demonstrations, tutorials, and exercises will introduce students to the terminology and workplace use of word processing, electronic spreadsheets, databases, electronic presentations, e-mail, and electronic schedules.

INTERMEDIATE MICROCOMPUTER BUSINESS APPLICATIONS

BTEC 152 5 Credits
50 hours of lecture

Continuation of BTEC 150, featuring the advanced functions of Microsoft Office software (word processing, spreadsheets, databases, presentations, e-mail, and schedules). Using a set of business related projects, students will work with the advanced features of Microsoft Office through demonstration, tutorials, case assignments, team work, and lecture. Prerequisite: BTEC 150.

WEB PAGE INTRODUCTION: FRONTPAGE

BTEC 160 W, Sp 3 Credits
30 hours of lecture

Introduction to FrontPage and beginning HTML. Create, save, and print Web pages; use interactive forms on the Web; manage Web sites; and use Web graphics.

MEDICAL OFFICE CLINICAL PROCEDURES I

BTEC 163 W 6 Credits
40 hours of lecture 40 hours of lab

Principles of medical office clinical procedures including preparing a patient for assisting a physician with examinations, procedures, and components of patient history. Covers charting, vital signs, sterile setups, universal blood precautions and methods of asepsis and sterilization. Topics also include techniques in patient interviewing and education. Lab provides the opportunity for practice and to demonstrate proficiency in procedures. Concurrent enrollment in BTEC 111. Prerequisite: BTEC 110 and BIOL 160, or the consent of the Instructional Unit.

MEDICAL OFFICE CLINICAL PROCEDURES II

BTEC 164 Sp 6 Credits
40 hours of lecture 40 hours of lab

Continuation of Medical Office Clinical Procedures I covering medical office clinical procedures including methods of collecting blood, processing specimens, equipment preparation and operation, electrocardiology, medication administration, medical and surgical asepsis. The lab provides an opportunity to practice procedures and demonstrate proficiency. Concurrent enrollment in BTEC 164L. Prerequisite: BIOL 160 and BTEC 163.

POWERPOINT PRESENTATION

BTEC 165 F, W, Sp 3 Credits
30 hours of lecture

Creation of electronic business presentations using text, graphics, charts, clip art and scanned objects incorporating ethics in infographics. Practice developing charts and embedding or linking media for print, sales presentations, and interoffice electronic communications. Four hours of laboratory per week required in addition to class time.

MEDICAL ASSISTANT DIRECTED PRACTICE

BTEC 166 Su 6 Credits
10 hours of lecture

Supervised medical assistant experience in a health care facility. Provides students with the opportunity to apply knowledge and skill in performing administrative and clinical procedures and in developing professional attitudes for interacting with other professionals and consumers. Written consent of Instructional Unit required. Prerequisite: BTEC 115, 163 and 164.

INTRODUCTION TO EXCEL

BTEC 169 F, W, Sp 3 Credits
30 hours of lecture

Creating, editing, and printing spreadsheets and graphs with hands-on instruction using Microsoft Excel 2002. Creating and using Excel databases, what-if scenarios, and other intermediate Excel features.

EXCEL FOR BUSINESS

BTEC 170 F, W, Sp 5 Credits
50 hours of lecture

Introductory and advanced Microsoft Excel 2000 skills from the basics, including creating professional worksheets, formulas, formatting, and charts, to more advanced topics, including using Visual Basic for Applications (VBA) with Excel, Auditing and Data Validation, Solving Complex Problems, and working with web pages to create interactive Excel spreadsheets. Through solving business problems, students will see both how and why technology is critical to business.

ACCESS FOR BUSINESS

BTEC 175 F, W, Sp 5 Credits
50 hours of lecture

Introductory and intermediate skills for Microsoft Access. Topics include creation of tables, queries, forms, reports, and macros using design view and wizards. Introduction of special fields such as memos; OLE and calculated controls within the tables, reports and forms; compacting and repairing a database; validation rules; referential integrity; and table normalization.

REFRESHER KEYBOARDING

BTEC 190 Su, F, W, Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Review of keyboard and basic typing applications, development of speed and accuracy. For students who have not typed for several years and need a review. Continuous enrollment, flexible time, individualized program. Satisfactory completion meets prerequisite for BTEC 122, Document Formatting. Register in BTEC 100. Registration will automatically be changed at the end of the quarter. This course is taught on a microcomputer.

COOPERATIVE WORK EXPERIENCE

BTEC 199 F, W, Sp 1-3 Credits

On-the-job work experience in the local community. Register for two or three credits. Must be a full-time student. Concurrent enrollment in BTEC 141, 143, or 145 required. Prerequisite: Consent of Instructional Unit.

ADMINISTRATIVE PROCEDURES

BTEC 211 W, Sp 5 Credits
50 hours of lecture

Introduces current office procedures and equips students with tools to solve a variety of problems in the changing business world. Simulations using the Microsoft Office suite and requiring critical thinking, multicultural relations, and advanced office procedures will prepare students to work successfully in a variety of office situations. Prerequisite: BTEC 087 or 107 and BTEC 150 (or 149).

E-COMMERCE: INTRODUCTION TO BUSINESS ON THE WEB

BTEC 212 Sp 3 Credits
30 hours of lecture

Introduction to e-commerce including the evolution of electronic commerce, business-to-business and business-to-customer, creating a web presence, commerce infrastructure and software choices, building an on-line store using a web-hosting service, security and encryption issues, electronic payments systems, and legal and ethical issues.

HEALTH INFORMATION PROCEDURES

BTEC 222 Sp 5 Credits
40 hours of lecture 20 hours of lab

Introduction to health information procedures, principles and practice standards associated with medical record department and health unit coordinator responsibilities. The course explores the licensing, regulation, and accreditation of health care facilities, hospital organization, patient registration, health care statistics, medical record content, medical record assembly, analysis and coding. Course will introduce ICD-9-CM and CPT coding and a review other medical classification and nomenclatures. Health Unit Coordinator responsibilities will be introduced with focus on transcription of physician orders. Prerequisite: BTEC 040.

BEGINNING MEDICAL TRANSCRIPTION

BTEC 223 W, Sp 2 Credits
40 hours of lab

Machine transcription of medical reports corresponding with the anatomy and terminology studied in BTEC 217, BTEC 218, BIOL 117, BIOL 118. Practice includes transcription of history and physical examinations, consultations, radiology reports, pathology reports, operation reports, autopsies and discharge summaries. Practice will also include proofreading documents for accuracy. Correct format of reports and proper use of references is emphasized. Prerequisite: Completion of, or concurrent enrollment in, BTEC 101 or 190, 111 and BIOL 118.

CHEMICAL DEPENDENCE COUNSELOR

ADVANCED MEDICAL TRANSCRIPTION

BTEC 224 Sp 3 Credits
60 hours of lab

Machine transcription of medical reports corresponding with the anatomy and terminology studied in BTEC 217, BTEC 218, BIOL 117, BIOL 118. Practice includes transcription of history and physical examinations, consultations, radiology reports, pathology reports, operation reports, autopsies and discharge summaries. The course provides additional transcriptions practice for students who have completed Beginning Medical Transcription, BTEC 223, by transcribing advanced reports. Correct format of reports and proper use of references is emphasized. Prerequisite: BTEC 223.

DIRECTED PRACTICE

BTEC 225 Su, W, Sp 2 Credits
10 hours of lecture

Supervised learning in a clinic, medical center, or other health care facility, practicing medical office administrative responsibilities. Prerequisite: Consent of Instructional Unit.

DIRECTED PRACTICE

BTEC 226 Su, W, Sp 3 Credits
10 hours of lecture

Supervised learning in a clinic, medical center, or other health care facility, practicing medical office administrative responsibilities. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

BTEC 280 1-3 Credits
30 hours of lecture

The course focuses on selected topics in Business Technology. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules.

SPECIAL PROJECTS

BTEC 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit.

SURVEY OF CHEMICAL DEPENDENCE

CDEP 101 3 Credits
30 hours of lecture

Biological, psychological, and sociological theories of the use of the major drugs of abuse, as well as addictive behaviors. Explores the distinction between use, abuse and addiction. For majors and non-majors. Prerequisite: ENGL 101.

INTRODUCTION TO COUNSELING CDEP CLIENTS

CDEP 122 3 Credits
30 hours of lecture

Application of basic counseling theories, including relapse prevention to chemical dependency client population. Group, individual and family counseling. Other cultures also addressed. Prerequisite: CDEP 120 or CDEP 201 or consent of Instructional Unit.

CHEMICAL DEPENDENCE GROUP COUNSELING

CDEP 125 3 Credits
30 hours of lecture

Use of group process for modifying individual attitudes and actions. Application of group counseling theories to a chemically dependent client population. Prerequisite: CDEP 120 or CDEP 201 or consent of Instructional Unit.

INTRODUCTION TO COUNSELING FAMILY MEMBERS

CDEP 132 3 Credits
30 hours of lecture

Knowledge and skills for working with significant persons in the chemically dependent individual's environment. Emphasis on counseling immediate family members. Prerequisite: CDEP 120 or CDEP 201.

LAW AND ETHICS IN ADDICTIONS COUNSELING

CDEP 136 W 3 Credits
30 hours of lecture

Examination of state and federal laws governing the addictions field, including the Washington Administrative Code for CDP's. Legal and ethical duties in the client-counselor relationship. Prerequisite: ENGL 101 and CDEP 101.

CHEMICAL DEPENDENCY AND MENTAL ILLNESS

CDEP 137 3 Credits
30 hours of lecture

Differential and dual diagnosis with CDEP clients. Use of current edition of Diagnostic and Statistical Manual. Pharmacological action of psychotropic medication, screening, treatment, referral of dual diagnosis clients. Prerequisite: CDEP 101 or consent of Instructional Unit.

CHEMICAL DEPENDENCY PREVENTION/ EDUCATION

CDEP 138 3 Credits

30 hours of lecture

Application of the Public Health and Social Development models to prevention activities. Knowledge of community resources in developing community education and prevention programs. Prerequisite: CDEP 101 and ENGL 101.

CASE MGMT IN COUNSELING THE CHEMICALLY DEPENDENT

CDEP 140 3 Credits

30 hours of lecture

Requirements for managing cases in treatment clinics: treatment and aftercare plans, notes, testing, preparation of accurate reports and other documents, confidentiality, and advocacy. ASAM criteria and treatment. Prerequisite: CDEP 120 and 122, or CDEP 201 or consent of Instructional Unit.

ALCOHOL-DRUG PHYSIOLOGY

CDEP 160 3 Credits

30 hours of lecture

Pharmacological effects of alcohol and drugs on the human body and mind. Prerequisite: ENGL 101.

CULTURAL AWARENESS IN CHEMICAL DEPEND COUNSELING

CDEP 161 3 Credits

30 hours of lecture

Culturally learned assumptions that shape a counseling interview. Culture as the heart of any counseling relationship. The impact of culture on treatment planning with chemically dependent clients. Prerequisite: CDEP 122.

ADOLESCENT ADDICTION ASSESSMENT AND TREATMENT

CDEP 164 Su, W 3 Credits

30 hours of lecture

An examination of adolescent development and the detrimental impact of addiction on youth development. The assessment process and treatment modalities for adolescents are presented. Prerequisite: CDEP 101, 122.

AIR- AND BLOOD-BORNE PATHOGENS

CDEP 170 2 Credits

20 hours of lecture

Skills to reduce impact of air- and blood-borne pathogens on chemical dependence clients. HIV/AIDS brief risk intervention for the chemically dependent population. Community resources available to clients.

THEORIES OF COUNSELING

CDEP 201 3 Credits

30 hours of lecture

Introduces the major counseling theories and techniques focusing on individual counseling within a Human Services framework. Students are encouraged to develop a counseling orientation based on these theories which include their own personal and professional ethical orientation. Prerequisite: ENGL 101, CDEP 101 and PSYC 101, or consent of Instructional Unit.

ADVANCED COUNSELING OF THE CHEMICALLY DEPENDENT

CDEP 205 3 Credits

30 hours of lecture

Development of skills needed to establish and maintain effective helping relationships with chemically dependent clients. Integration of relapse prevention counseling in treatment. Prerequisite: ENGL 101, CDEP 101, 120, or 201, 122.

FIELD PLACEMENT I

CDEP 210 F, W, Sp 6 Credits

Twenty hours weekly of on-the-job supervised experience applying counseling theories and practices. Addiction Counselor Competencies will be used as a framework for assessment. Prerequisite: 30 hours of CDEP courses including CDEP 135 or CDEP 136 and consent of Instructional Unit.

FIELD PLACEMENT II

CDEP 211 F, W, Sp 6 Credits

Twenty hours weekly of on-the-job supervised experience. Applying counseling theories and practices. Addiction Counselor Competencies will be used as a framework for assessment. Prerequisite: Grade of "C" in CDEP 210, and instructor's permission.

SELECTED TOPICS

CDEP 280 1-3 Credits

30 hours of lecture

Special topics in chemical dependence as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: ENGL 101.

SPECIAL PROJECTS

CDEP 290 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by the Instructional Unit. Prerequisite: Consent of Instructional Unit.

CHEMISTRY

SKILLS FOR HEALTH CHEMISTRY

CHEM 050 Su, F, W, Sp 4 Credits
40 hours of lecture

Prepares students for CHEM 111-112, for health occupations fields. Unit-factor method in problem solving. Topics include math operations used in chemistry, measurement density, conversion factors, chemical symbols and terminology, and selected chemical concepts. Concurrent enrollment in or completion of MATH 090 recommended. Prerequisite: Eligibility for MATH 089, 090 or equivalent.

PREPARATORY INORGANIC CHEMISTRY

CHEM 100 Su, F 4 Credits
40 hours of lecture

For students who lack the necessary background in applied mathematics and chemistry to enroll in the CHEM 131-132-133 sequence for science and engineering majors. Scientific methods of measurement, theory of atomic structure, properties of elements and compounds, the periodic table, naming compounds and balancing chemical equations, properties of solutions, and properties of gases are covered. Prerequisite: MATH 090,091 or equivalent or consent of Instructional Unit.

INTEGRATED CHEMISTRY

CHEM 111 Su, F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

Topics in general chemistry applicable to students seeking a 2-year degree in the health-occupations fields. Unit-factor method is applied to problem solving. Topics covered include units of measurement, atomic structure, chemical bonding, energy, the mole concept, nomenclature of inorganic compounds, writing and balancing equations, properties of gases, solutions and colloids, reaction rates and equilibrium, acids, bases and salts, radiation and health. Completion of elementary algebra recommended. Prerequisite: Eligibility for MATH 093/095 by college placement test or a grade of "C" or better in CHEM 050.

INTEGRATED CHEMISTRY

CHEM 112 F, Sp 5 Credits
40 hours of lecture 20 hours of lab

Aspects of organic and biochemistry emphasizing how chemicals affect functioning of the human body. Applicable to students seeking a 2-year degree in the health-occupations fields. Topics covered include aliphatic and aromatic compounds, alcohols, ethers, amines, aldehydes, ketones, carboxylic acids and their derivatives, carbohydrates and carbohydrate metabolism, lipids and lipid metabolism, proteins and protein metabolism, enzymes and hormones, nucleic acids and the chemistry of heredity, body fluids and the human circulation system and nutrition. Prerequisite: Grade of "C" or better in CHEM 111.

GENERAL INORGANIC CHEMISTRY

CHEM 131 F, W 5 Credits
40 hours of lecture 30 hours of lab

First of a 3-quarter sequence designed for science and engineering majors. Applications of the scientific method by correlating theory with experimental observation. Topics include: systems of measurement, atomic structure, chemical bonding, stoichiometric calculations, properties of gases, nomenclature of inorganic compounds, and writing and balancing equations. Prerequisite: Recommending score for MATH 111 on the college numerical skills placement test.

GENERAL INORGANIC CHEMISTRY

CHEM 132 W, Sp 5 Credits
40 hours of lecture 30 hours of lab

Second of 3-quarter sequence. Includes properties of liquids and solids, solutions, concentrations, thermodynamics, kinetics, acid-base theory and ionic equilibria. Prerequisite: A grade of "C" or better in CHEM 131 or consent of Instructional Unit.

GENERAL INORGANIC CHEMISTRY

CHEM 133 Su, Sp 4 Credits
40 hours of lecture

Third of a three-quarter sequence. Includes nuclear chemistry, electrochemistry, organic chemistry, coordination compounds and applications of chemical concepts to the elements on the periodic table. Environmental and current chemistry applications are discussed. Prerequisite: A grade of "C" or better in CHEM 132 or consent of Instructional Unit.

INTRODUCTION TO QUANTITATIVE ANALYSIS

CHEM 135 Sp 2 Credits
10 hours of lecture 30 hours of lab

Laboratory course designed as an option for science and engineering students. Chemical and ionic equilibria, acid-base theory of aqueous solutions and selected principles of electrochemistry and spectrophotometry. Students learn to standardize measuring devices, complete selected gravimetric and/or volumetric experiments, and a spectrophotometric experiment. Prerequisite: Completion of CHEM 133 with a "C" or better or concurrent enrollment in CHEM 133 or consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

CHEM 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

ELEMENTARY ORGANIC CHEMISTRY

CHEM 201 F 6 Credits
50 hours of lecture 30 hours of lab

Survey of Organic Chemistry designed for students majoring in Biology at WSU Vancouver. Emphasis is on compound nomenclature, compound structure and properties, understanding acid-base concepts and how they apply to chemical reactions and reactivity, hydrogen bonding, hybridization, resonance effects and their importance of these concepts to physical and chemical properties of molecules, as well as biological and biochemical functions. Prerequisite: A grade of "C" or better in CHEM 133 or consent of instructional unit.

ORGANIC CHEMISTRY

CHEM 211 F 5 Credits
40 hours of lecture 40 hours of lab

The first of a 3-quarter sequence designed for students seeking a career in science or medicine. Chemistry of aliphatic and alicyclic compounds is covered emphasizing a mechanistic approach. Specific topics covered include molecular orbitals, hybridization, resonance, acids and bases, nomenclature, stereochemistry, structure and reactivity, substitution, addition, elimination and rearrangement, reactions, properties and synthesis of alkanes, alkenes and alkynes, and spectroscopic methods of structural analysis. Prerequisite: A grade of "C" or better in CHEM 132 or 133 and consent of Instructional Unit.

ORGANIC CHEMISTRY

CHEM 212 W 5 Credits
40 hours of lecture 40 hours of lab

The second of a 3-quarter sequence designed for students seeking a career in science or medicine. Mechanistic approach applied to synthesis and reactions of free radicals, alcohols, ethers, organometallic compounds, conjugated unsaturated systems, aromatic compounds and aldehydes and ketones. Prerequisite: A grade of "C" or better in CHEM 211.

ORGANIC CHEMISTRY

CHEM 213 Sp 3 Credits
30 hours of lecture

The last of a 3-quarter sequence designed for students seeking a career in science or medicine. Mechanistic approach applied to synthesis and reactions of carboxylic acids and their derivatives, beta-dicarbonyl compounds, amines, phenols, and aryl halides. Introduction to biomolecules: composition, structure and reactions of fats, carbohydrates, proteins and nucleic acids. Prerequisite: A grade of "C" or better in CHEM 212.

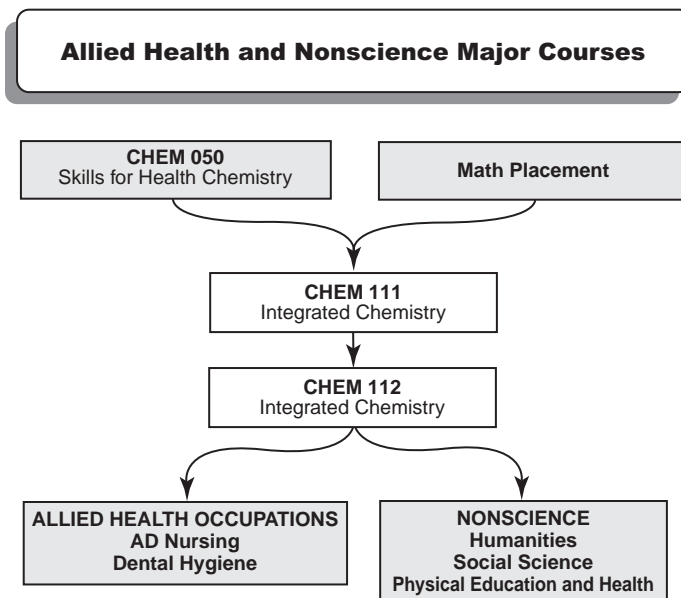
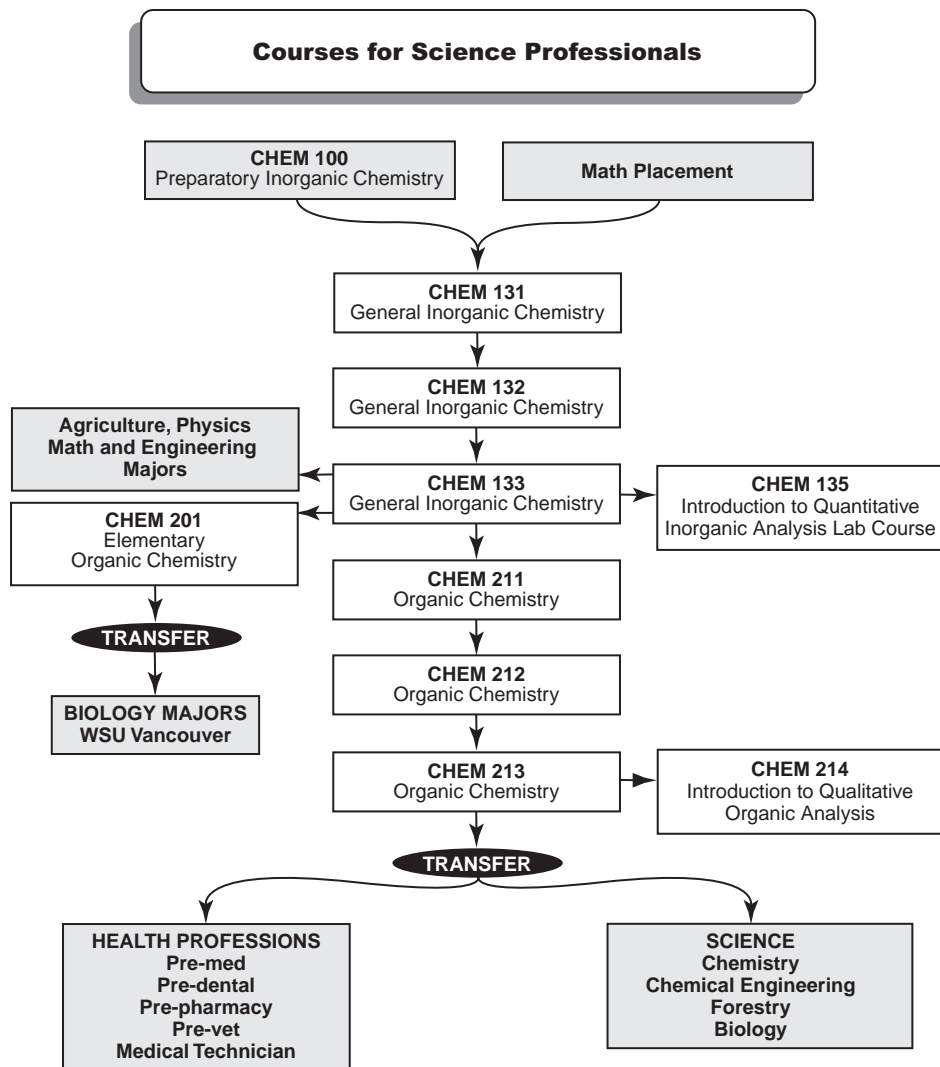
INTRODUCTION TO QUALITATIVE ORGANIC ANALYSIS

CHEM 214 Sp 2 Credits
10 hours of lecture 30 hours of lab

Separation, purification, and identification of organic compounds using chemical and instrumental methods of analysis. Concurrent enrollment in CHEM 213. Prerequisite: A grade of "C" or better in CHEM 212.

SPECIAL PROJECTS

CHEM 290 F, W, Sp 1-6 Credits
Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.



COMPUTER AIDED DESIGN & DRAFTING TECHNOLOGY

CAD SEMINAR I

CADD 101 F, W 1 Credit
20 hours of lab

Intended specifically for all CAD Certificate students, as well as for anyone interested in exploring the world of Computer Aided Design and Drafting. The course consists of field trips to a variety of local industries (and to a lesser extent, guest speakers) where we will get an overview of each company, the work environment, and see how they utilize CADD.

CAD SEMINAR II

CADD 102 F, W 1 Credit
20 hours of lab

Intended specifically for all CAD Certificate students, as well as for anyone interested in exploring the world of Computer Aided Design and Drafting. The course consists of field trips to a variety of local industries (and to a lesser extent, guest speakers) where we will get an overview of each company, the work environment, and see how they utilize CADD.

BASIC RHINOCEROS

CADD 120 F 3 Credits
10 hours of lecture 40 hours of lab

Basic operation of 3D surface modeling software (Rhinoceros) of interest to students in Engineering, CAD, Art, and GRCP. Creating and editing curves, surfaces, solids, set-up textures, and lighting effects. Includes the rendering of 3D objects. Recommended for anyone comfortable using a PC.

BASIC AUTOCAD

CADD 140 Su, F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Basic operations of the current version of AutoCAD. Covers screen features, drawing and editing objects, working with 2D and 3D, using both model space and layouts, opening and saving files, and using templates. Recommended for anyone comfortable using a PC.

INTERMEDIATE AUTOCAD 2D

CADD 141 Su, F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

AutoCAD as used as a 2D drafting product. Topics covered are draw, edit, and inquiry commands, properties, dimensioning, blocks and attributes, printing, and model/layout space. Prerequisite: MTEC 100 or MTEC or CADD 140, or ENGR 114 or consent of Instructional Unit.

INTERMEDIATE AUTOCAD 3D

CADD 142 Su, F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Proficiency in using AutoCAD in 3D is the intended outcome of this course. This class covers viewpoints, UCS control, viewports, solid modeling, and dimensioning in 3D. Prerequisite: MTEC 100 or MTEC or CADD 140, or ENGR 114, or consent of Instructional Unit.

BASIC SOLIDWORKS

CADD 150 Su, F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Parametric solids modeling with SolidWorks, covering the breadth of the software at a basic level. Create part, assembly, and drawing files, including design tables and multiple configurations. Recommended for anyone comfortable using a PC.

INTRODUCTION TO CAM

CADD 160 Sp 2 Credits
10 hours of lecture 20 hours of lab

Introduction to CAM software for CNC machine operation. Recommended for anyone comfortable using a PC.

COOPERATIVE WORK EXPERIENCE

CADD 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Prerequisite: Consent of Instructional Unit and completion of or concurrent enrollment in HDEV 195, 198 or 200 required.

PRESENTATION GRAPHICS

CADD 207 Sp 3 Credits
10 hours of lecture 40 hours of lab

Use of AutoCAD graphics in MS Word documents, lighting and rendering, and explores importation of CAD files into other graphics packages such as Studio 3D MAX. Prerequisite: MTEC or CADD 141 or 142, or consent of Instructional Unit.

AUTOCAD CUSTOMIZATION

CADD 214 Sp 3 Credits
10 hours of lecture 40 hours of lab

Customizing buttons and toolbars, using AutoLISP to create new AutoCAD commands. Introduction to custom dialog boxes. Prerequisite: MTEC or CADD 141 or 142, and MATH 103.

SELECTED TOPICS

CADD 280 F, W, Sp 1-5 Credits
50 hours of lecture

Course focuses on selected topics in EMET. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

CADD 290 F, W, Sp 1-6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

COMPUTER TECHNOLOGY

INTRODUCTION TO COMPUTING

CTEC 100 Su, F, W, Sp 3 Credits
30 hours of lecture

Overview of computer information systems. Introduces computer hardware, communications, systems, and human resources, exploring their integration and application in society. Extensive coverage of terminology. Class constitutes a general introduction to computer systems and how they are used.

COMPUTING ESSENTIALS

CTEC 101 F, W, Sp 2 Credits
20 hours of lecture

Introduction to basic skills and problem solving involved with computer hardware, operating systems, and application programs with a special emphasis on conventions and skills universal to a variety of computing settings and skills which promote portability between systems and applications. Provides an overview of key skills in a variety of operating system environments and digital interactive settings. Skills and topics include: essential interactions in major operating system environments, basic hardware components of a personal computer system, an overview of file formats and management with an emphasis on backup and portable document strategies, basic interactions in e-mail and worldwide web including how to document and save web pages, and a survey of the purposes of various types of application programs.

INTRODUCTION TO WINDOWS

CTEC 102 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to the Windows GUI environment. Topics covered include: Windows startup, desktop and resource management, troubleshooting and Windows utilities. Work with graphics, perform object linking and embedding, and develop familiarity with the resources in Network Neighborhood.

INTRODUCTION TO MAC/OS

CTEC 103 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to the Macintosh operating system. Course emphasizes the feel and function of the Macintosh, conveying the Macintosh as a visual environment. Visual cues and identification of the concepts that make a Macintosh unique will be stressed.

PC SUPPORT CUSTOMER SERVICE SKILLS

CTEC 104 F, Sp 3 Credits
30 hours of lecture

Communication skills for working in a technical environment. Topics covered: professional ethics and behavior, health and safety issues, and developing a service attitude.

INTRODUCTION TO THE INTERNET

CTEC 105 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to global networking and the Internet from the user's perspective with an emphasis on the basic skills required to participate as a member of the Internet community. Topics include use of electronic mail, electronic discussion groups, accessing databases and on-line information from around the world, and downloading files from file archives. Overview of the social impact of networking technology, the Internet history, and culture.

BEGINNING PROGRAMMING

CTEC 120 F, W, Sp 2 Credits
20 hours of lecture

Introduction to the use of a text editor and how to design and write elementary programs in BASIC. Class stresses problem solving skills and requires substantial time outside of class working on programming assignments. Prerequisite: A grade of "C" or better in MATH 090 or 091 or recommending score on the numerical skills placement test.

INTRODUCTION TO PROGRAMMING AND PROBLEM SOLVING

CTEC 121 F, W, Sp 5 Credits
50 hours of lecture

Fundamental concepts related to designing and writing computer programs and procedures. Topics covered include: problem-solving techniques, program design, coding, debugging, testing and documentation. The course stresses concepts common to all programming and introduces the C language. Prerequisite: A grade of "C" or better in MATH 090 or 091.

HTML FUNDAMENTALS

CTEC 122 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to website development through the mastery of the fundamentals of HTML coding for web pages. Intended to give the student the basic skills required to hand-code web pages from scratch. Topics include: essential tags, tags for image placement, tables, frames, and forms.

INTRODUCTION TO VISUAL BASIC

CTEC 123 F, W, Sp 5 Credits
50 hours of lecture

Introduction to designing, creating, and debugging Windows application using Visual Basic. Concepts of event-driven programming, user-interface design, and data access are covered. Focuses on developing applications in a GUI (graphical user interface) environment. Prerequisite: A grade of "C" or better in CSCI 120 or CTEC 121.

INTRODUCTION TO C

CTEC 125 F, W, Sp 5 Credits
50 hours of lecture

Introduction to the C programming language. Emphasis on program design, verification, and testing. Programming related concepts in computer science will be covered. Prerequisite: A grade of "C" or better in CSCI 120 or CTEC 121.

INTRODUCTION TO WEB SCRIPTING

CTEC 126 W, Sp 5 Credits
50 hours of lecture

Introduction to using scripting to add functionality to HTML documents (Web pages). Includes an overview of current scripting languages and techniques. Prerequisite: A grade of "C" or better in CSCI 100 or CTEC 120 and either CSCI 107 or CTEC 122 or CSA 186, or consent of Instructional Unit.

INTRODUCTION TO UNIX

CTEC 140 F, W, Sp 5 Credits
50 hours of lecture

An introduction to the structure and use of the UNIX operating system. Topics covered include: file management, common utilities, and (basic) shell programming. Prerequisite: A grade of "C" or better in MATH 090 or 091.

UNIX SYSTEM ADMINISTRATION

CTEC 141 W, Sp 5 Credits
50 hours of lecture

Fundamental concepts, ideas and practices of administering the UNIX operating system. Topics include account management, file systems, startup and shutdown, printing, security, backups, configuration, optimization and basic networking. Prerequisite: A grade of "C" or better in CSCI 140 or CTEC 140, or consent of Instructional Unit.

AIX SYSTEM ADMINISTRATION

CTEC 142 W 5 Credits
50 hours of lecture

Installation, customization, and discharging common AIX system administration tasks, using the AIX operating system in a multiuser environment. Learn the basic commands and skills for administering the AIX operating system(s). Preparation for the AIX System Administration certification test or the AIX System Support certification test. Prerequisite: CSCI 140 or CTEC 140.

UNIX POWER TOOLS

CTEC 143 F 5 Credits
50 hours of lecture

Continuing skills development using various basic UNIX tools in the shell environment includes shell scripts, sed, awk, and regular expressions; preparation for using UNIX or UNIX-like system power tools. Prerequisite: CTEC 121 or CSCI 120, and CTEC 140 or CSCI 140.

INTRO TO LOCAL AREA NETWORKS

CTEC 150 F, W, Sp 2 Credits
20 hours of lecture

Introduction to the terminology, concepts and basic operations of local area network systems. Windows workstations will be used in Windows domain and in Novell Netware local area networks. Prerequisite: A grade of "C" or better or concurrent enrollment in CSA 167 or CTEC 102 or BTEC 149.

NETWORKING CONCEPTS

CTEC 151 F, W 5 Credits
50 hours of lecture

Concept course covering a wide range of vendor and product neutral networking technologies by focusing on networking fundamentals such as protocols, implementation, support, and topologies. Students examine TPC/IP subnetting, networking operating systems, security and troubleshooting. Prerequisite: A grade of "C" or better in CSCI 106 or CTEC 150 or consent of Instructional Unit.

INTRODUCTION TO ACCESS

CTEC 180 F, W, Sp 5 Credits
50 hours of lecture

Introductory and intermediate skills for Microsoft Access. Topics include creation of tables, queries, forms, reports, and macros using design view and wizards. Introduction to special fields such as memos; OLE and calculated controls within the tables, reports and forms; compacting and repairing a database; validation rules; referential integrity; and table normalization.

INTRO TO DATABASE DESIGN USING ACCESS

CTEC 181 F, W, Sp 5 Credits
50 hours of lecture

Database design for those who need to design, create, and maintain databases. Presents the information level databases design concepts relative to any relational database structure (DBMS), and then focuses on the physical level design of a database using MS Access as the DBMS. Topics covered are: Intro to DB Management, The Relational Model Database Normalization Design Methodology, and Creation of Tables, Queries, Forms, Reports and Macros using MS Access.

COOPERATIVE WORK EXPERIENCE

CTEC 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Prerequisite: Consent of Instructional Unit and completion of or concurrent enrollment in HDEV 195, 198 or 200 required.

PC SUPPORT WORK EXPERIENCE I

CTEC 200 Su, F, W, Sp 1-5 Credits
10 hours of lecture

Work experience for Microcomputer Support Specialist students. Students will work at the CSCI Help Desk. Days and times are arranged to meet the students' scheduling needs. Prerequisite: CSA 150 or CTEC 104.

Computer Technology

A+PC OPERATING SYSTEM TECHNOLOGIES

CTEC 201 F, Sp 5 Credits
50 hours of lecture

Intermediate course in technical topics related to computer operating system fundamentals. Covers installation, configuration and upgrading operating systems. Includes diagnosing problems and general troubleshooting skills. Basic network capabilities of operating systems are covered. Prerequisite: ELEC 107.

INTRODUCTION TO JAVA

CTEC 220 W, Sp 5 Credits
50 hours of lecture

Introduction to the Java programming language. Emphasis on object-oriented design and development of portable, multithreaded, event-driven software. Prerequisite: A grade of "C" or better in CSCI 134 or CTEC 125, or consent of Instructional Unit.

INTRODUCTION TO C++

CTEC 221 W, Sp 5 Credits
50 hours of lecture

Introduction to the C++ programming language. Emphasis on object-oriented programming (OOP) design principles and their implementation in C++, addressing issues of reusability, efficiency, and style. Prerequisite: A grade of "C" or better in CSCI 134 or CTEC 125, or consent of Instructional Unit.

INTRODUCTION TO DATA STRUCTURES AND ALGORITHMS

CTEC 222 Sp 5 Credits
50 hours of lecture

Introduction to the design and implementation of data structures and algorithms in C. Mathematical analysis of algorithm correctness and efficiency. Topics include sorting, searching, stacks, queues, arrays, lists, trees, and graphs. Prerequisite: A grade of "C" or better in CSCI 134 or CTEC 125, or consent of Instructional Unit.

INTERMEDIATE VISUAL BASIC

CTEC 224 W, Sp 5 Credits
50 hours of lecture

Intermediate course in Visual Basic Programming. Topics include: Custom controls, error handling and debugging, interface design, graphics and multimedia, working with databases and Windows API functions. Prerequisite: A grade of "C" or better in CSCI 204 or CTEC 123, or consent of Instructional Unit.

SOFTWARE DESIGN

CTEC 225 Sp 5 Credits
50 hours of lecture

Overview of software engineering principles and software design techniques. Exploration of the software life cycle. Topics include requirements, testing, maintenance, and software engineering. Prerequisite: A grade of "C" or better in CSCI 134 or CTEC 125, and CSCI 200 or CTEC 222, or consent of Instructional Unit.

UNIX NETWORK ADMINISTRATION AND SECURITY

CTEC 240 W 5 Credits
50 hours of lecture

Skills development for configuring and administering a TCP/IP network; topics include configuring basic networking, client services, file sharing services, major network services, cryptography, user, file, and network security, and other relevant topics. Prerequisite: CTEC 141 or CSCI 141.

SCRIPTING WITH PERL

CTEC 241 W, Sp 5 Credits
50 hours of lecture

Introduction to the Perl language in the Unix environment. Topics include text processing, report generation, system administration tasks, and CGI scripting for interactive web pages. Projects emphasize hands-on, practical applications of the language. Previous programming experience and knowledge of basic HTML strongly recommended. Prerequisite: A grade of "C" or better in CSCI 140 or CTEC 140, or consent of Instructional Unit.

ADVANCED AIX SYSTEM ADMINISTRATION

CTEC 242 Sp 5 Credits
50 hours of lecture

Build on basic AIX system administrator skills and learn advanced topics. Develop and build advanced AIX system administrator skills, including system problem determination, and carry out appropriate steps to fix such problems. Heavy emphasis on customizing the AIX system. Mastering the skills taught will be invaluable to success when taking the AIX System Administrator certification test or the AIX System Support test. Prerequisite: CSCI 143 or CTEC 142.

THE LINUX KERNEL

CTEC 248 Sp 5 Credits
50 hours of lecture

Examining the Linux kernel to understand how Linux performs best in various environments and how kernel operations relate to various UNIX utilities; topics include memory addressing, process functions, virtual file systems, managing I/O devices, process communication, program execution, and other relevant topics. Prerequisite: CTEC 243.

WINDOWS ADMINISTRATION

CTEC 250 W, Sp 5 Credits
50 hours of lecture

This course helps students gain knowledge and skills needed to support Microsoft Windows. Topics covered: setup, configuration, customization, optimization, network integration and administration, troubleshooting, and messaging. Prerequisite: A grade of "C" or better in CSA 166 or 167 or CTEC 102 and CSCI 100 or CTEC 100.

NOVELL NETWARE ADMINISTRATION

CTEC 251 F, W, Sp 5 Credits
50 hours of lecture

Introduction to managing a Novell Netware computer network. Topics covered include the NDS directory tree, managing network access for users, creating and managing user accounts, managing file system security, creating login scripts, setting up and managing printing services, and installing a Netware Server. Prerequisite: A grade of "C" or better in CSA 166 or 167 or CTEC 102, and CSCI 100 or CTEC 100 and ELEC 111, or consent of Instructional Unit.

WINDOWS 2000 NETWORK AND OS ESSENTIALS

CTEC 261 F, W, Sp 3 Credits
30 hours of lecture

Microsoft MCSE course #2151. Provides knowledge necessary to understand and identify tasks that support Windows 2000 networks. An introductory course designed to present an overview of networking concepts and how they are implemented in Windows 2000. Prerequisite: A grade of "C" or better in CSCI 106 or CTEC 150, and MATH 090 and ENGL 098, or consent of Instructional Unit.

WINDOWS 2000 PROFESSIONAL AND SERVER

CTEC 262 F, W, Sp 5 Credits
50 hours of lecture

Microsoft MCSE course #2152. Provides the knowledge and skills to install and configure Microsoft Windows 2000 Professional on stand-alone and client computers that are part of a workgroup or domain and also to install and configure Windows 2000 Server to create file, print, web, and terminal servers. Prerequisite: A grade of "C" or better in CSCI 261 or CTEC 261 and CSCI 151 or CTEC 151, or consent of Instructional Unit.

WINDOWS 2000 NETWORK INFRASTRUCTURE

CTEC 263 F, W, Sp 5 Credits
50 hours of lecture

Microsoft MCSE course #2153. Provides the knowledge and skills for installing, configuring, managing, and supporting network infrastructures that use Microsoft Windows 2000 Server products. Concurrent enrollment in CSCI 269 or CTEC 269, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CSCI 262 or CTEC 262 or consent of Instructional Unit.

WINDOWS 2000 DIRECTORY SERVICES

CTEC 264 Su 5 Credits
50 hours of lecture

Microsoft MCSE course #2154. Provides knowledge and skills for installing, configuring, and administering Microsoft Windows 2000 Active Directory services. Prerequisite: A grade of "C" or better in CSCI 263 or CTEC 263, or consent of Instructional Unit.

WINDOWS 2000 NETWORK ENVIRONMENT

CTEC 268 F, W, Sp 5 Credits
50 hours of lecture

Microsoft MCSE course #2126. Provides the knowledge and skills for designing and planning, deploying, managing, and troubleshooting complex Windows system and network environments in medium to large organizations. Prerequisite: CSCI 262 or CTEC 262.

WINDOWS 2000 TROUBLESHOOTING

CTEC 269 F, W, Sp 2 Credits
20 hours of lecture

Provides information and practical experience for installing and troubleshooting Windows 2000 networked systems. Concurrent enrollment in CSCI 263 or CTEC 263, or consent of Instructional Unit. Prerequisite: A grade of "C" or better in CSCI 262 or CTEC 262, or consent of Instructional Unit.

SELECTED TOPICS

CTEC 280 Su, F, W, Sp 1-6 Credits
60 hours of lecture

Varying topics. May be repeated for credit. Prerequisite: Consent of Instructional Unit.

DATABASE IMPLEMENTATION USING ACCESS

CTEC 281 Sp 5 Credits
50 hours of lecture

Instruction in advanced database applications and Microsoft extensions. Topics include Visual Basic for applications, Data Access objects, OLE controls, creation of add-ins, security implementation, database replication for synchronization, accessing, external data sources, and managing client/server issues. Prerequisite: A grade of "C" or better in CSA 141 or CTEC 181 and CSCI 204 or CTEC 123.

PROGRAMMING WITH SQL

CTEC 282 Sp 5 Credits
50 hours of lecture

SQL language and syntax. Design, installation, and maintenance of the SQL database as a programmatic datasource using Microsoft SQL Server 7.0. Includes programming techniques that integrate SQL Server 7.0 with the Microsoft Active X Data Objects (ADO) and Data Management Objects (DMO) COM libraries. Prerequisite: CSA 141 or CTEC 181 and CSCI 205 or CTEC 224.

SPECIAL PROJECTS

CTEC 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

CONSTRUCTION TECHNOLOGY

BLUEPRINT READING

CNST 106 F, W 3 Credits
30 hours of lecture

Construction blueprint reading for residential and light commercial.

JOB ESTIMATING AND SCHEDULING

CNST 108 W, Sp 3 Credits
30 hours of lecture

Bid preparation activities from initial receipt of drawings and specifications, to the final submission of the bid to project owner. Scheduling of subcontractors to complete the project. Prerequisite: CNST 106 or consent of Instructional Unit.

CONSTRUCTION TECHNOLOGY I

CNST 111 F 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction. Including design, finance, construction (general, mechanical, specialty), and marketing.

CONSTRUCTION TECHNOLOGY I LAB

CNST 112 F 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 111. Concurrent enrollment in CNST 111 required.

CONSTRUCTION TECHNOLOGY II

CNST 121 W 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 111.

CONSTRUCTION TECHNOLOGY II LAB

CNST 122 W 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 121. Concurrent enrollment in CNST 121 required. Prerequisite: CNST 112.

CONSTRUCTION TECHNOLOGY III

CNST 131 Sp 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 121.

CONSTRUCTION TECHNOLOGY III LAB

CNST 132 Sp 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 131. Concurrent enrollment in CNST 131 required. Prerequisite: CNST 122.

CONSTRUCTION TECHNOLOGY IV

CNST 211 F 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 131.

CONSTRUCTION TECHNOLOGY IV LAB

CNST 212 F 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 211. Concurrent enrollment in CNST 211 required. Prerequisite: CNST 132.

CONSTRUCTION TECHNOLOGY V

CNST 221 W 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 211.

CONSTRUCTION TECHNOLOGY V LAB

CNST 222 W 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 221. Concurrent enrollment in CNST 221 required. Prerequisite: CNST 212.

CONSTRUCTION TECHNOLOGY VI

CNST 231 Sp 6 Credits
60 hours of lecture

Basic concepts and theories of residential and commercial construction including design, finance, construction (general, mechanical, specialty), and marketing. Prerequisite: CNST 221.

CONSTRUCTION TECHNOLOGY VI LAB

CNST 232 Sp 6 Credits
120 hours of lab

Application of the concepts and theories presented in CNST 231. Concurrent enrollment in CNST 231 required. Prerequisite: CNST 222.

SPECIAL PROJECTS

CNST 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

COOPERATIVE EDUCATION WORK EXPERIENCE

COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience (Co-op) is offered by many departments in courses identified by the course number 199. Co-op is an instructional program providing the opportunity for students to earn up to a total of 15 credits for work at a job that closely parallels their field of study while enrolled in school. Enrollment may be for a variable number of credits, depending on the number of hours worked per week. Participation in weekly companion seminars or meeting with a faculty member on a by-arrangement basis to discuss work progress is required. Most of Clark's professional, technical or transfer programs include Co-op either as an elective or as a graduation requirement.

CPR (CARDIOPULMONARY RESUSCITATION)

HEALTHCARE PROVIDER CPR

CPR 032 Su, F, W, Sp 0 Credit
5 hours of lecture

For healthcare professionals and nursing and dental hygiene students only. Prudent heart living, one and two person CPR, infant, child, conscious and unconscious obstructed airway. Basic Life Support card issued.

CHILD CARE CPR

CPR 033 0 Credit
5 hours of lecture

Pediatric CPR - specifically designed for parents and child care providers. Focus is on home safety, infant and child CPR. This course fulfills the state licensing requirement for child care providers. Two sessions.

DATA NETWORKS AND TELECOMMUNICATIONS TECHNOLOGY

CISCO NETWORKING I

DNET 120 Sp 6 Credits
40 hours of lecture 40 hours of lab

Introduction to CISCO networking technologies. Topics include the OSI model, network components such as network design, premise wiring, topologies, and industry standards, and a project-based learning component that deals with the design of networks and the installation of network premise cabling. Prerequisite: Grade of "C" or better in ELEC 111 and 217 and ENGL 098 or consent of Instructional Unit.

COOPERATIVE WORK EXPERIENCE

DNET 199 F, W, Sp 1-6 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employee evaluation. Prerequisite: Completion of or concurrent enrollment in HDEV 195 and 198 or 200 and consent of Instructional Unit.

TELECOMMUNICATION SYSTEM I

DNET 201 F, Sp 6 Credits
40 hours of lecture 40 hours of lab

Operational theory of voice and data communications terminal equipment and links. Topics include Trunks, Voice Mail, Subscriber Loops, Switches and Terminal Equipment. Prerequisite: "C" or better in DNET 120 or consent of Instructional Unit.

TELECOMMUNICATION SYSTEM II

DNET 202 W 6 Credits
40 hours of lecture 40 hours of lab

Operational theory of voice and data communications networking equipment and links. Topics include Trunks, Network Protocols, Switches and Transport Equipment. Prerequisite: "C" or better in DNET 201 or consent of Instructional Unit.

CISCO NETWORKING II

DNET 230 F 6 Credits
40 hours of lecture 40 hours of lab

This is the second course in a sequence of four CISCO Networking courses. Topics include beginning router configurations and Networking management. Prerequisite: A "C" or better in DNET 120.

CISCO NETWORKING III

DNET 240 W 6 Credits
40 hours of lecture 40 hours of lab

Continuation of the Cisco Networking sequence. Topics include router and switching configurations, network management and applications to real world networking situations. Prerequisite: "C" or better in DNET 230.

CISCO NETWORKING IV

DNET 250 Sp 5 Credits
20 hours of lecture 60 hours of lab

This fourth and final class in the CISCO Networking sequence is designed to prepare the student for job entry level skills as a Data Networking and/or Telecommunications Technician. The course is 80 hours in length and is competency based. This course will also emphasize the college-wide abilities of information/Technology and Critical Thinking/Problem solving. The student will gain skills to be used in industry such as project completion and timeliness and work environment familiarity. Prerequisite: "C" or better in DNET 240.

DENTAL HYGIENE

DENTAL ANATOMY

DH 101 F 3 Credits
30 hours of lecture

Embryology, histology and the anatomical development of the human dentition. Includes anatomical abnormalities of the primary and permanent dentition. Emphasizes college wide abilities of Critical Thinking (Level II), Communication (Level II), Global Multicultural Awareness (Level I) and Life Long Learning (Level II).

HEAD AND NECK ANATOMY

DH 102 W 3 Credits
30 hours of lecture 5 hour Lab

Embryological, histological and anatomical development of the head and neck as it applies to the practice of dental hygiene. Emphasizes the college-wide abilities of Communications (Level II), Critical Thinking (Level II), and Life-Long Learning (Level III).

INTRODUCTION TO DENTAL MATERIALS/ ASSISTING

DH 104 Su, Sp 3 Credits
20 hours of lecture 20 hours of lab

Introduction to properties and manipulation of basic restorative materials including resin, bases, liners, varnishes, and cements and sealants. Introduction to four-handed chairside assisting, study model preparation and pit and fissure sealant application. Clinical practice through assisting in restorative situations. Emphasizes the Technical Information and Critical Thinking college-wide abilities at level I.

CLINICAL DENTAL HYGIENE TECHNIQUES I

DH 111 F 6 Credits
30 hours of lecture 60 hours of lab

Basic theory and practice of dental hygiene clinical skills including medical history review, oral inspection, charting, infection control and beginning instrumentation. Emphasizes college-wide abilities of Life-Long Learning and Critical Thinking at level I.

CLINICAL DENTAL HYGIENE TECHNIQUES II

DH 112 W 5 Credits
15 hours of lecture 70 hours of lab

Emphasis on the principles of instrumentation and patient management. Clinical practice in oral prophylaxis, preventive procedures and patient management at the Introductory Level. Emphasizes the college-wide abilities of Critical Thinking, Communication and Life-Long Learning at Level I. Prerequisite: DH 111.

CLINICAL DENTAL HYGIENE TECHNIQUES III

DH 113 Sp 5 Credits
15 hours of lecture 70 hours of lab

Clinical practice in oral prophylaxis, preventative procedures and patient management at the Introductory and Development Levels. Emphasizes the college-wide abilities of Critical Thinking, Communication and Life-Long Learning at level I. Prerequisite: DH 112.

CLINICAL DENTAL HYGIENE TECHNIQUES IV

DH 114 Su 4 Credits
80 hours of lab

Clinical practice in oral prophylaxis, preventive procedures, introduction to ultrasonic techniques, chairside instruction and patient management. Emphasizes the college-wide abilities Critical Thinking and Effective Citizenship. Concurrent enrollment is DH 013, and 114L required. Prerequisite: DH 113.

ORAL RADIOLOGY I

DH 122 W 3 Credits
20 hours of lecture 20 hours of lab

Radiographic theory, equipment, patient safety, and techniques for exposing, processing and mounting dental radiographs. Emphasizes the college-wide abilities of Communication and Critical Thinking level I.

ORAL RADIOLOGY II

DH 123 Sp 3 Credits
20 hours of lecture 20 hours of lab

Radiographic theory application and radiographic image interpretation. Continued experience in exposing, processing, and mounting, and critiquing dental radiographs. Emphasizes the college-wide abilities of Critical Thinking and Communication at level II. Prerequisite: DH 122.

RESTORATIVE DENTISTRY I

DH 134 Su 2 Credits
10 hours of lecture 20 hours of lab

Introduction to restorative techniques with emphasis on placement of amalgam and clinical experience with sealant application. Emphasizes the Technical Information and Critical Thinking college-wide abilities at level I.

ORAL MEDICINE

DH 141 F 2 Credits
20 hours of lecture

Introduction to the evaluation of medical/dental histories in preparation for dental hygiene treatment. Includes the most commonly encountered oral and systemic diseases. Emphasizes the Communication, Critical Thinking, college abilities at level II.

Dental Hygiene

GENERAL AND ORAL PATHOLOGY

DH 143 Su, Sp 3 Credits
30 hours of lecture

Fundamentals of oral pathology including the inflammatory processes, tumor development, metabolic pathways and developmental disturbances. Emphasizes the college abilities of Communication, Information Technology, Effective Citizenship and Life-Long Learning at level II. Prerequisite: Consent of Instructional Unit.

ETHICS AND THE PROFESSION

DH 152 W 1 Credit
10 hours of lecture

Basic ethical principles, ethical problem solving methods, the Principles of Ethics of the American Dental Hygienist Association, and Washington State Laws applicable to the practice of dental hygiene. These elements will enable the student to apply professional attitudes and judgements when treating clinical patients.

CLINICAL DENTAL HYGIENE TECHNIQUES IV SEMINAR

DH 154 Su 1 Credit
10 hours of lecture

Clarification and elaboration of topics related to the student's most current clinical skills and experiences. Techniques for treating patients with special needs and importance of providing these patients with complete dental care. Emphasizes the college-wide abilities of Critical Thinking and Effective Citizenship at level II.

PHARMACOLOGY

DH 161 F 3 Credits
30 hours of lecture

Introduction to drugs most commonly encountered or prescribed by dental office personnel including the drug's classification, pharmacodynamics, dosage and therapeutic effects. Emphasizes the college-wide abilities of Critical Thinking, Information Technology and Life-Long Learning at Level II.

LOCAL ANESTHESIA AND PAIN CONTROL IN DENTISTRY

DH 163 Sp 3 Credits
30 hours of lecture 5 hour lab

Integration of anatomy, physiology, pharmacology and emergency procedures as they relate to the administration of local anesthesia. Laboratory sessions to develop competency in administering and anesthetic are required. Emphasizes the college-wide abilities of Critical Thinking (Level III), Communications (Level II), and Life-Long Learning (Level III).

PERIODONTICS I

DH 171 F 3 Credits
20 hours of lecture 20 hours of lab

Introduction to histological and clinical characteristics of normal and diseased periodontium. Introduction to tooth accumulated materials and preventive oral aids. Emphasizes the college-wide abilities of Communication and Critical Thinking at Level I.

CARIOLOGY

DH 172 W 2 Credits
20 hours of lecture

Presentation of cause, progression and prevention of dental caries with an emphasis on fluoride. Emphasizes the Critical Thinking and Life-Long Learning college-wide abilities at Level I and II.

NITROUS OXIDE SEDATION

DH 174 Su 1 Credit
10 hours of lecture

Exploration of nitrous oxide sedation as it applies to the practice of dentistry and dental hygiene with emphasis on client evaluation, pharmacodynamics, and safety in administration. Supplemented by other basic science courses and by continued supervised clinical practice. Emphasizes the college-wide abilities of Critical Thinking (Level III), Communication (Level II), and Life Long Learning (Level II).

COOPERATIVE WORK EXPERIENCE

DH 199 Su, F, W, Sp 1-5 Credits
Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

DENTAL HEALTH EDUCATION

DH 201 F 3 Credits
20 hours of lecture 20 hours of lab

Development of skills as a dental health educator and dental health resource person. Includes a survey of principles and concepts of teaching and learning and use of teaching aids and motivational techniques as they apply to both group and individual education. Emphasizes the college wide abilities of the Communication and Critical Thinking at Level III.

COMMUNITY DENTAL HEALTH I

DH 202 W 3 Credits
20 hours of lecture 20 hours of lab

Introduction to a systematic approach to the prevention and control of dental disease and the promotion of dental health through organized community efforts. Practical application of community health techniques in the assessment, planning, implementation and evaluation of community programs. Emphasizes the college wide abilities of Communication at Level II and Critical Thinking, Information Technology, Life-Long Learning, Effective Citizenship and Global Multicultural abilities at Level III.

COMMUNITY DENTAL HEALTH II

DH 203 Sp 1 Credit
20 hours of lab

Continuation of DH 202. Promoting dental health in school settings. Emphasizes the college wide ability of Communication at Level III.

CLINICAL DENTAL HYGIENE TECHNIQUES V

DH 211 F 9 Credits
180 hours of lab

Clinical practice in patient assessment and management techniques, treatment planning, root planning, practice in pain control, disease control, use of ultrasonic devices, and desensitizing agents. Emphasizes the college wide ability of Critical Thinking (Level II) and Information Technology (Level II). Prerequisite: DH 114.

CLINICAL DENTAL HYGIENE TECHNIQUES VI

DH 212 W 9 Credits
180 hours of lab

Clinical practice of advanced instrumentation and patient treatment techniques. Emphasizes the college wide ability of Critical Thinking (Level III) and Effective Citizenship (Level II). Prerequisite: DH 211.

CLINICAL DENTAL HYGIENE TECHNIQUES VII

DH 213 Sp 10 Credits
200 hours of lab

Advanced clinical treatment techniques with emphasis on periodontal therapy. Emphasizes the college wide abilities of Critical Thinking (Level III) and Information Technology (Level III). Prerequisite: DH 212.

RESTORATIVE DENTISTRY II

DH 231 F 5 Credits
20 hours of lecture 60 hours of lab

Clinical and Laboratory practices in expanded duties as allowed by Washington State Law; restorative dentistry and associated procedures, dental analgesia, and local anesthetic. Emphasizes the college wide abilities of Critical Thinking, Communication and Life-Long Learning at Level II and III. Prerequisite: DH 134 or consent of Instructional Unit.

RESTORATIVE DENTISTRY III

DH 232 W 4 Credits
10 hours of lecture 60 hours of lab

Further perfection of skills and mastery of the objectives outlined in DH 231 to an increasingly higher level of performance, with emphasis on client care. Emphasizes the college-wide abilities of Critical Thinking, Communication and Life-Long Learning at Level II and III. Prerequisite: DH 231 or consent of Instructional Unit.

RESTORATIVE DENTISTRY IV

DH 233 Sp 3 Credits
10 hours of lecture 40 hours of lab

Clinical and laboratory practice in expanded duties as allowed by Washington State law; restorative dentistry and associated procedures, dental analgesia, local anesthetic, current dental material evaluation and product selection for use in clinical practice. Emphasizes the college-wide abilities of Critical Thinking, Communication and Information Technology at Level III. Prerequisite: DH 232 or consent of Instructional Unit.

CLINICAL DENTAL HYGIENE TECHNIQUES V SEMINAR

DH 251 F 1 Credit
10 hours of lecture

Expansion of academic, behavioral and clinical skills necessary for the performance of patient treatment and related activities, through an in-depth independent research project. Emphasizes the college-wide abilities of Critical Thinking (Level II) and Communication (Level III).

CLINICAL DENTAL HYGIENE TECHNIQUES VI SEMINAR

DH 252 W 1 Credit
10 hours of lecture

Expansion of advanced academic, behavioral and clinical skills necessary for the performance of patient treatment and related activities in clinical practice. Research, development and presentation of a table clinic will be the focus of the course. Emphasizes the college wide abilities of Information/Technology (Level III) and Communication (Level III).

CLINICAL DENTAL HYGIENE TECHNIQUES VII SEMINAR

DH 253 Sp 1 Credit
10 hours of lecture

Development of professional and team skills to be utilized when working in the dental hygiene field. Resume preparation and interviewing techniques. Emphasizes the college-wide abilities of Information Technology (Level III) and Communication (Level III).

ETHICS AND PRACTICE MANAGEMENT

DH 263 Sp 1 Credit
10 hours of lecture

Legal and ethical issues related to dental hygiene. Topics include professional and client relationships, professional associations, state dental hygiene practice acts, career alternatives and lifelong learning.

PERIODONTICS II

DH 271 F 2 Credits
20 hours of lecture

Root morphology and the etiological factors of periodontal diseases. Topics include; host response to, oral structures affected by, the classifications of gingival and periodontal diseases. Current methods and diagnostic aids used to assess and evaluate periodontal disease in a patient will be presented. Emphasizes the college-wide abilities of Critical Thinking/Problem solving (Level II) and Informational/Technology (Level II).

PERIODONTICS III

DH 272 W 2 Credits
20 hours of lecture

Subjects covered this quarter will be treatment modalities of periodontal disease to include root planing, antimicrobials, lasers and surgical procedures; HIV and periodontitis, reevaluation and maintenance procedures for the periodontal involved patient. Emphasizes the college-wide abilities of Critical Thinking (Level III) and Effective Citizenship (Level III). Prerequisite: DH 271 or consent of Instructional Unit.

SPECIAL PROJECTS

DH 290 Su, F, W, Sp 1-15 Credits
Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

**DEVELOPMENTAL
EDUCATION**

MATH BASICS I

DVED 021 Su, F, W, Sp 5 Credits
50 hours of lecture

Study and application of basic math concepts: addition, subtraction, multiplication, division, fractions, decimals. Prerequisite: Recommending score on ASSET placement test or consent of Instructional Unit.

MATH BASICS II

DVED 023 Su, F, W, Sp 5 Credits
50 hours of lecture

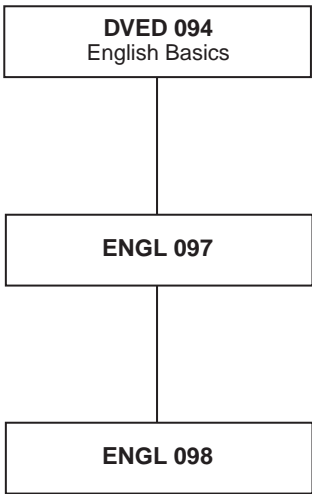
Analysis and application of basic math concepts and operations emphasizing ratio and proportions, percents, measurements and simple equations. Prerequisite: A grade of "C" or better in DVED 021 or consent of Instructional Unit.

ENGLISH BASICS

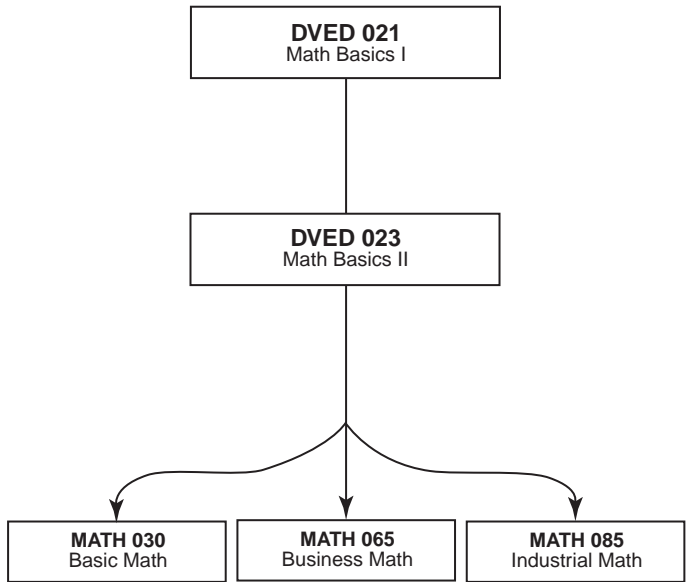
DVED 094 Su, F, W, Sp 5 Credits
50 hours of lecture

Emphasis on writing more fluently, clearly, and correctly. Students build skills through exercises in grammar, writing responses to assigned readings, and planning, organizing, drafting, and revising paragraphs. In-class and out-of-class paragraphs are required. Prerequisite: Recommending score on the College writing skills placement test or consent of Instructional Unit.

Developmental Education English Sequence
Initial placement based upon a recommending score on a placement test



Developmental Education Math Sequence
Initial placement based upon a recommending score on a placement test



DIESEL TECHNOLOGY

DETROIT DIESEL ELECTRONIC CONTROLS

DIES 093 W 3 Credits
30 hours of lecture

A study of Detroit diesel electronic controls (DDEC). Basic system component functions and identification, proper trouble shooting procedures, use of specialized trouble shooting tools and equipment.

CUMMINS ENGINES

DIES 096 3 Credits
30 hours of lecture

Specialized training in Cummins engine theory, troubleshooting, tune-up, maintenance, repair, and safety.

GENERATOR SETS

DIES 097 Sp 3 Credits
30 hours of lecture

Maintenance, troubleshooting, and repair of generator sets. Safety and theory of operation.

CAT ENGINES

DIES 099 3 Credits
30 hours of lecture

Specialized training in Caterpillar engine theory, tune-up, troubleshooting, maintenance, repair, and safety.

DIESEL FUNDAMENTALS

DIES 111 F 5 Credits
50 hours of lecture

Introduction to diesel engine construction and principles of operation. Basics of physics and engineering as related to operation of diesel engines. Basic shop tools and safety.

DIESEL PROCEDURES

DIES 112 F 10 Credits
50 hours of lecture 100 hours of lab

Disassembly, inspection, assembly, and adjustment of various diesel engines used in highway and off-highway vehicles. Concurrent enrollment in DIES 111 recommended.

DIESEL ENGINES/FUEL SYSTEMS

DIES 113 W 5 Credits
50 hours of lecture

Repair, adjustment and testing procedures for diesel engines, components and systems. Introduction to fuel systems used and electronic controls used on modern diesel engines. Concurrent enrollment in DIES 114 recommended.

DIESEL PROCEDURES

DIES 114 W 10 Credits
50 hours of lecture 100 hours of lab

Test, adjust, and diagnostics of engines and maintenance practices. Concurrent enrollment in DIES 113 recommended.

DRIVE TRAINS

DIES 115 Sp 5 Credits
50 hours of lecture

Principles of operation and basic construction of drive train components used in on- and off-highway equipment. Concurrent enrollment in DIES 116 recommended.

DIESEL PROCEDURES

DIES 116 Sp 10 Credits
50 hours of lecture 100 hours of lab

Disassembly, inspection, assembly, and adjustments of drive train components. Concurrent enrollment in DIES 115 recommended.

WHEEL ALIGNMENT

DIES 118 Sp 3 Credits
20 hours of lecture 20 hours of lab

Automobile chassis, suspension assemblies, steering systems, wheel balancing, wheel alignment, steering, geometry, headlight aiming and safety.

INDUSTRIAL HYDRAULICS

DIES 135 W 3 Credits
30 hours of lecture

Hands-on experience in recognizing, using, and troubleshooting hydraulic pumps, valves, motors, filters, hoses, piping, and fittings in hydraulic systems.

COOPERATIVE WORK EXPERIENCE

DIES 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

ELECTRICAL/ELECTRONIC SYSTEMS

DIES 221 F 5 Credits
50 hours of lecture

Charging, starting, lighting, and control circuits and components used on heavy equipment and highway trucks. Concurrent enrollment in DIES 222 recommended.

DIESEL PROCEDURES

DIES 222 F 4 Credits
20 hours of lecture 40 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 221 recommended.

EARLY CHILDHOOD EDUCATION

HYDRAULIC SYSTEMS

DIES 223 W 5 Credits
50 hours of lecture

Theory and principles of operation of mobile hydraulic systems. Concurrent enrollment in DIES 224 recommended.

DIESEL PROCEDURES

DIES 224 W 10 Credits
50 hours of lecture 100 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 223 recommended. Prerequisite: DIES 222 or consent of Instructional Unit.

BRAKES, STEERING, AND SUSPENSION

DIES 225 Sp 5 Credits
50 hours of lecture

Hydraulic and air brake systems, steering and suspension used on highway trucks, and heavy equipment. Concurrent enrollment in DIES 226 recommended.

DIESEL PROCEDURES

DIES 226 Sp 10 Credits
50 hours of lecture 100 hours of lab

Repair and maintenance of diesel and heavy equipment. Students will participate in customer repair projects. Concurrent enrollment in DIES 225 recommended. Prerequisite: DIES 224 or consent of Instructional Unit.

SELECTED TOPICS

DIES 280 Su, F, W, Sp 1-5 Credits
50 hours of lecture

The course focuses on selected topics in Diesel. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

DIES 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit required.

CHILD DEVELOPMENT: BIRTH TO SIX

ECE 100 F, Sp 3 Credits
30 hours of lecture

Child growth and development from birth to age six years, including physical, emotional, cultural, cognitive, and creative age-related changes. Application to early childhood programs in centers and homes. Offered as a telecourse or online course.

SCIENCE AND MATHEMATICS FOR YOUNG CHILDREN

ECE 102 Sp 3 Credits
30 hours of lecture

Explores the theories, issues and applications of science and math concepts in activities and environments for preschool aged children. Investigates the strategies of teaching through the discovery and use of science and math curriculums in their surroundings.

CHILD NUTRITION, HEALTH AND SAFETY

ECE 103 F 3 Credits
30 hours of lecture

Nutrition, health and safety information for parents, teachers, and others interested in young children. Promoting good eating habits, wholesome foods and menu planning for preschool and day care groups. Creating safe and healthy environments at home and at school. Childhood diseases.

INTRO TO CHILDREN WITH SPECIAL NEEDS

ECE 104 F 3 Credits
30 hours of lecture

Introduction to various topics regarding children with special needs and exploration of concepts of inclusion and individualized instruction.

INDIVIDUALIZED INSTRUCTION I

ECE 105 W 2 Credits
20 hours of lecture

Theories and practices for inclusive early childhood education programs. Explores personal perceptions of disabilities and commonly held biases and the impact of environmental influences on ability.

INDIVIDUALIZED INSTRUCTION II

ECE 106 Sp 2 Credits
10 hours of lecture 20 hours of lab

Theories and practices for inclusive early childhood programs. Documents a student's interests, strengths, and needs and develops an inclusion plan that supports those areas. Prerequisite: ECE 105.

PROGRAMS FOR INFANTS

ECE 108 F 3 Credits
30 hours of lecture

Principles and theories of infant development and the implications for curriculum. Focus on caregiving practices and learning environments that support infants' growth and total well-being.

Early Childhood Education

PROGRAMS FOR TODDLERS

ECE 109 W 3 Credits
25 hours of lecture 10 hours of lab

Principles and theories of toddler growth and development. Focus on a responsive learning environment approach to curriculum which includes caregiving practices, the schedule, the routines, the furnishings and materials.

GROWTH, DEVELOPMENT AND GUIDANCE OF SCHOOL-AGERS

ECE 110 F 3 Credits
30 hours of lecture

Introduction and overview of the growth, development and guidance of school-aged children in child care settings including, but not limited to: social, cognitive, emotional, moral, physical, and self-development; guidance and communication; conflict resolution; and working with families involved in School-Aged programs.

EARLY CHILDHOOD EDUCATION WORKSHOPS

ECE 111 F, Sp 1-3 Credits
30 hours of lecture

In-service and special topic seminars for those currently working with groups of young children. Each 3-week session is offered for one credit. Students may take any or all of the sessions. A maximum of six credits of ECE 111 may be applied to major area requirements for a degree in Early Childhood Education.

CURRICULUM FOR SCHOOL-AGED CHILDREN

ECE 112 W 3 Credits
30 hours of lecture

Overview of curricular programming for School-Agers. Topics include, but not limited to environmental planning and organization, age and developmentally appropriate practices, documentation, emergent, inclusive, and culturally responsive curriculum, the Project Approach, and Summer programming. Prerequisite: ECE 110 or ECE 124 or equivalent.

ENVIRONMENTS FOR CHILDREN

ECE 114 F 3 Credits
30 hours of lecture

Planning physical space appropriate to children's cognitive, physical, and socio-emotional development. Develop an understanding of the role of environments on children's learning and behavior including schedules, materials, room arrangement, and center-based learning. Incorporating diversity through the environment.

LITERATURE AND STORYTELLING FOR CHILDREN

ECE 116 Sp 3 Credits
30 hours of lecture

An overall look at the role storytelling and literature play in the development of the young child. Focuses on how storytelling and literature impact literacy, aesthetic development, cultural development, as well as how they support the whole child. Includes resources in the community, delivery techniques and how to select appropriate books and literature.

INTRODUCTION TO EARLY CHILDHOOD EDUCATION

ECE 121 F, W 4 Credits
30 hours of lecture 20 hours of lab

History, philosophy, research, current trends and issues in early education. Developmentally appropriate practices in programs for children aged birth through 6 years. Two hours per week participation in the Early Childhood Education Laboratory School. One observation in an outside agency.

EARLY CHILDHOOD PROGRAM REGULATIONS AND BEST PRACTICES

ECE 123 Sp 2 Credits
20 hours of lecture

Overview of the minimum licensing requirements for ECE programs in the State of Washington as well as recommended best practices as set by the National Association for the Education of Young Children and other professional organizations. Includes application of the Americans With Disabilities Act to programs and practices. Covers recognition and reporting of child maltreatment.

GUIDING BEHAVIOR OF YOUNG CHILDREN

ECE 124 W 3 Credits
30 hours of lecture

Developing observational and interpretive skills in the guidance of young children. Specific approaches and guidance techniques. Focus on communication and negotiation skills. Curriculum planning from a developmental multicultural perspective.

ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION

ECE 131 Su 3 Credits
30 hours of lecture

History, philosophy, research, current trends, and issues in early education. Developmentally appropriate practices in programs for children, birth through 6 years. One outside observation required in an early childhood program. Statewide, offered as an online course only. Credit not allowed for both ECE 121 and 131.

COOPERATIVE WORK EXPERIENCE

ECE 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluations. Completion of, or concurrent in, HDEV 195, 198, or 200 required. Prerequisite: ECE 121, 124, 209 and 210, and consent of Instructional Unit.

CHILD AND FAMILY

ECE 202 Sp 3 Credits
30 hours of lecture

An ecological perspective of the family and the socialization of children. Areas of focus include an examination of family structures, historical and economic perspectives, stressors, family dynamics and multiple perspectives of culture with ensuing impacts on families participating in early childhood programs.

EARLY LANGUAGE FACILITATION

ECE 208 W 2 Credits
20 hours of lecture

A comprehensive overview of early speech and language development. Theoretical exploration of language acquisition in the context of psychosocial, socio-cultural, biosocial, and cognitive development.

LEARNING EXPERIENCES FOR YOUNG CHILDREN I

ECE 209 Sp 3 Credits
30 hours of lecture

Explore curriculum planning processes with a special focus on an environmental approach using observations of children's play and knowledge of child development. Areas of study include the self, social development, dramatic play, literacy and art. Concurrent enrollment in ECE 210 required. Prerequisite: Completion of, or concurrent enrollment in ECE 124.

LEARNING EXPERIENCES FOR YOUNG CHILDREN I LAB

ECE 210 Sp 3 Credits
60 hours of lab

Lab experience in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 209. Concurrent enrollment in ECE 209 required. Prerequisite: Completion of, or concurrent enrollment in, ECE 124.

LEARNING EXPERIENCES FOR YOUNG CHILDREN II

ECE 211 F 3 Credits
30 hours of lecture

Further develop curriculum planning processes with a special emphasis on scheduling and project approach planning using observations of children's play and knowledge of child development. Areas of study include science, math, group experiences, music/movement, and outdoors. Conduct case studies and provide peer support and feedback. Concurrent enrollment in ECE 212 required. Prerequisite: ECE 209, or consent of Instructional Unit.

LEARNING EXPERIENCES FOR YOUNG CHILDREN II LAB

ECE 212 F 3 Credits
60 hours of lab

Lab experience in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 211. Concurrent enrollment in ECE 211 required. Prerequisite: ECE 210, or consent of Instructional Unit.

LEARNING EXPERIENCES FOR YOUNG CHILDREN III

ECE 213 W 3 Credits
30 hours of lecture

Further develop curriculum planning processes with special emphasis on emergent and integrated thematic approaches while applying knowledge of multiple intelligences. Areas of study include parent/teacher relationships, teacher development stages, staff communication and relationships. In-depth study of individual and cultural diversity as related to knowledge of child development. Concurrent enrollment in ECE 214 required. Prerequisite: ECE 211, or consent of Instructional Unit.

LEARNING EXPERIENCES FOR YOUNG CHILDREN III LAB

ECE 214 W 3 Credits
60 hours of lab

Lab experiences in Early Childhood Education Laboratory School. Plan, implement and analyze plans in relation to relevant topics in ECE 213. Concurrent enrollment in ECE 213 required. Prerequisite: ECE 212, or consent of Instructional Unit.

EARLY CHILDHOOD SEMINAR

ECE 215 Sp 2 Credits
20 hours of lecture

Seminar on professionalism, ethics and issues in teaching and administration. Concurrent enrollment in ECE 199, 15 hours per week required as field placement for students in teaching degree program. Prerequisite: ECE 214, or consent of Instructional Unit.

SELECTED TOPICS

ECE 280 F, W, Sp 1-3 Credits
30 hours of lecture

Selected topics in Early Childhood Education as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

ECE 290 F, W, Sp 1-3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ECONOMICS

INTRODUCTION TO ECONOMICS

ECON 101 F, W, Sp 3 Credits
30 hours of lecture

Introduction to basic economic concepts and their application to current economic issues.

ECONOMIC GEOGRAPHY

ECON 107 Sp 5 Credits
50 hours of lecture

Broad patterns, courses, and consequences of interrelationships between economic and geographic forces, processes, and resources. Location of economic activity, population dynamics, strategic resources, global economic flashpoints, patterns/consequences of regional integration. Same as GEOG 107. Credit not allowed for both ECON 107 and GEOG 107.

INTRODUCTION TO THE GLOBAL ECONOMY

ECON 110 5 Credits
50 hours of lecture

Learn how to acquire the vision and skills necessary to function as a world-class participant in the global economy. Study comparative economic systems currency exchanges, cultural differences, and marketing across institutional borders. Gain an integrated global perspective that will prepare you to function in the emerging global economy.

THE ECONOMIES OF THE PACIFIC RIM

ECON 111 F 5 Credits
50 hours of lecture

The events and people shaping the last 150 years of Asia-Pacific economics and history. Relate these to the shape of the Pacific Basin relationships. Economic resources and interdependence in the Pacific Basin, the United States in the Pacific, the collisions between the East and West, the changing attitudes toward power, authority, democracy, tradition and progress.

THE ECONOMIES OF THE AMERICAS

ECON 112 W 5 Credits
50 hours of lecture

The economies and cultural characteristics of the nations of the United States. Gain an integrated perspective and greater appreciation of the nations which comprise Central and South America, a diverse region which encompasses great wealth and extreme poverty, small and large nations, democratic and totalitarian traditions, and complex multi-cultural heritage.

INTERNATIONAL ECONOMICS

ECON 120 Sp 5 Credits
50 hours of lecture

Introduction to international economics. Introduces the non-economics major or non-business major to the basic concepts and tools of international economic analysis, including the concepts and tools of trade, trade policy, trading blocs, protectionism, exchange rate determination, managing currencies, multi-national corporations, developing countries, the environment, labor, and capital mobility.

MACROECONOMICS

ECON 201 F, W 5 Credits
50 hours of lecture

Broad economic principles, issues, structures, processes, and variables governing the dynamics of the United States and global economies. Problems of economic organization, market processes, role of government in the economy and society, money and banking processes and issues, measurement and determination of economic aggregates, fiscal and monetary policies, economic growth and development and international trade. Prerequisite: ECON 101 or MATH 095 or consent of Instructional Unit.

MICROECONOMICS

ECON 202 W, Sp 5 Credits
50 hours of lecture

Essential market processes, structures, issues, and variables governing how individuals, firms and governmental entities allocate resources, produce and distribute goods and services, determine prices, evaluate trade-offs and effectively compete and grow. Prerequisite: ECON 101 or MATH 095 or consent of Instructional Unit.

SPECIAL PROJECTS

ECON 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

EDUCATION

COOPERATIVE WORK EXPERIENCE

ED 199 F, W, Sp 1-5 Credits

Supervised work experience in education. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

INTRODUCTION TO EDUCATION

ED 201 F, W, Sp 3 Credits
30 hours of lecture 40 hours of lab

Overview of education as a discipline, a philosophy, and a profession. Recommended for future teachers and paraeducators. Concurrent enrollment in ED 202 required.

INTRODUCTORY FIELD EXPERIENCE

ED 202 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Orientation to teaching and life in the American system of schooling. Supervised volunteer field experience with a weekly, one-hour seminar. Concurrent enrollment in ED 201 required.

ELECTRONICS TECHNOLOGY

PROFESSIONAL DEVELOPMENT FOR TECHNICIANS

ELEC 100 Sp 3 Credits
20 hours of lecture 20 hours of lab

Development of skills required for successful job placement and career development in technical occupations. Topics will include resume writing, effective job search techniques, interviewing skills, professional attitudes, business ethics, leadership development, and creating and posting an on-line resume.

DC FUNDAMENTALS

ELEC 101 F, W 6 Credits
40 hours of lecture 40 hours of lab

Fundamentals of DC circuits with emphasis on algebraic analysis of resistive networks. Includes hands on experience in DC circuit construction, measurement and troubleshooting. Prerequisite: ENGL 098 or recommending score on the college writing skills placement test, and MATH 098 or concurrent enrollment, or consent of the Instructional Unit.

AC FUNDAMENTALS

ELEC 102 W 6 Credits
40 hours of lecture 40 hours of lab

Fundamentals of AC resistive, capacitive and inductive networks with emphasis placed on methods of analysis and circuit characteristics. Includes hands on experience in AC circuit construction, measurement and troubleshooting. Prerequisite: ENGL 098 or recommending score on the college writing skills placement test or consent of Instructional Unit. Concurrent enrollment in MATH 099 required.

A+ PC CORE HARDWARE TECHNOLOGIES

ELEC 107 Su, F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

The intent of this course is to prepare students to be able to diagnose PC problems, to disassemble and reassemble the system components, and to install new devices to PC system. Students will learn the basic components and terminology of Personal Computer (PC) systems and learn the skills of assembling and troubleshooting PC hardware and systems. Emphasis will be placed on items that are on the current A+ Examination. Lab practice will be conducted with IBM-compatible PC's. Prerequisite: ELEC 111, or CSCI 100 and CSA 160.

INTRODUCTION TO MICROCOMPUTERS

ELEC 111 W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Introduction to personal computer hardware and system software. Operating systems, PC subsystems including video displays and adapters, disk drives, I/O, and memory expansion. Basic troubleshooting techniques.

Education
Electronics Technology

SEMICONDUCTORS I

ELEC 121 F, Sp 6 Credits
40 hours of lecture 40 hours of lab

Fundamentals and applications of diodes, transistors and special purpose semiconductor devices. Includes hands on experience in semiconductor circuit construction, measurement and trouble shooting. Prerequisite: A grade of "C" or better in ELEC 102 or consent of Instructional Unit.

SEMICONDUCTORS II

ELEC 122 Sp 4 Credits
20 hours of lecture 40 hours of lab

Fundamentals and applications of linear integrated circuits and operational amplifiers. Includes hands-on experience in linear integrated and operational circuit construction, measurement, and troubleshooting. Prerequisite: A grade of "C" or better in ELEC 121 or concurrent enrollment in ELEC 121.

COOPERATIVE WORK EXPERIENCE

ELEC 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Consent of Instructional Unit required.

DIGITAL PRINCIPLES I

ELEC 209 F, W 6 Credits
40 hours of lecture 40 hours of lab

Examines the theory and characteristics of digital integrated circuits including basic logic gates, encoders, decoders and displays. Emphasis is placed on utilizing basic digital devices, circuits and systems in practical applications and on troubleshooting digital circuits and systems. Prerequisite: A grade of "C" or better in ELEC 122 and ENGL 111 or consent of Instructional Unit.

DIGITAL PRINCIPLES II

ELEC 210 F, Sp 6 Credits
40 hours of lecture 40 hours of lab

Examines the theory and characteristics of more advanced digital integrated circuits including flip-flops, counters, shift registers, multiplexers, memories, and analog to digital and digital to analog converters. Emphasis is placed on digital devices, circuits and systems in practical applications, and on troubleshooting digital circuits and systems. Prerequisite: A grade of "C" or better in ELEC 209 or concurrent enrollment in ELEC 209 or consent of Instructional Unit.

PNEUMATICS/HYDRAULICS/VACUUM

ELEC 215 W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Theory and principles of basic fluid power, as applied to hydraulic, pneumatic, and vacuum systems. Opportunity to learn fluid power's control and uses, the nomenclature of design, component selection, and the effect on the operation and function of the system. Lecture and demonstrations will be presented.

INTRODUCTION TO ELECTRICITY AND ELECTRONICS

ELEC 217 F, W 8 Credits
50 hours of lecture 60 hours of lab

Introduction to basic electronics. Alternating and direct circuit analysis and function, semi-conductor function and applications, and basic digital logic as it applies to automation devices and equipment will be introduced. Provides practical hands-on work with basic DC, AC and electronic circuits. Prerequisite: MATH 095 or 099, or consent of Instructional Unit.

INTRODUCTION TO STATISTICAL PROCESS CONTROL

ELEC 240 F 5 Credits
50 hours of lecture

Introduction to the foundations of statistics, basics of statistical control, acceptance sampling, types of control charts, manufacturing applications and strategies. Prerequisite: Grade of "C" or better in MATH 099 or eligibility for 100 level Math classes.

INDUSTRIAL ELECTRONICS

ELEC 244 W 9 Credits
70 hours of lecture 40 hours of lab

Devices and circuits used in industrial applications: sensors and transducers, thyristor devices and trigger circuits, motors and motor controls, programmable logic controllers, and closed loop control systems. Prerequisite: A grade of "C" or better in ELEC 210 or ELEC 217 or consent of Instructional Unit.

INTRODUCTION TO SEMICONDUCTOR MANUFACTURING I

ELEC 250 Sp 2 Credits
20 hours of lecture

First class of a two-part sequence. Introductory overview of the microchip fabrication process from semiconductor material preparation to completion of the packaged device. Includes foundations of safety practices, current issues, science, processes, materials involved, crystal growth, and contamination control of clean rooms. Prerequisite: ELEC 240.

INTRODUCTION TO SEMICONDUCTOR MANUFACTURING II

ELEC 252 Sp 2 Credits
20 hours of lecture

Second class of a two-part sequence. Includes advanced applications of safety practices, current issues, science, processes, materials involved, crystal growth and contamination control of clean rooms. Prerequisite: ELEC 250.

EMT (EMERGENCY MEDICAL TECHNICIAN)

PROGRAMMABLE CONTROLLERS I

ELEC 260 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Basic concepts of digital programmable controllers used in industrial process control. Hardware concepts and programming procedures that aid in the installation and maintenance of industrial controllers. Prerequisite: A grade of "C" or better in ELEC 210 or ELEC 217.

PROGRAMMABLE CONTROLLERS II

ELEC 262 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Advanced topics in Industrial Control Technology. Prepares students to work with PLCs from a system design and programming standpoint. Prerequisite: ELEC 260 or consent of Instructional Unit.

INDUSTRIAL DATA COMMUNICATIONS

ELEC 265 W 4 Credits
20 hours of lecture 40 hours of lab

Introduction to the field of Data Communications. The topics of the course include RS232 serial communications and modems, binary and hexadecimal coding systems, Data Switched network protocols, Noise, dB, LAN infrastructure, and Fiber Optics. Prerequisite: ELEC 210.

CAPTSTONE: AUTOMATED SYSTEMS

ELEC 270 Sp 3 Credits
10 hours of lecture 40 hours of lab

Student teams develop automated systems projects that reflect an actual working environment. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

ELEC 280 Su, F, W, Sp 1-6 Credits
60 hours of lecture

Course focuses on selected topics in Electronics. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

ELEC 290 F, W, Sp 1-3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

EMERGENCY MEDICAL TECHNICIAN

EMT 103 9 Credits
60 hours of lecture 40 hours of lab

100 hours of training in emergency procedures and 10 hours of in-hospital observation. Each lesson provides for supervised practice of skills taught in that lesson. Course is under the supervision of a physician and lay-coordinator. Meets requirements of state EMT certification. Admission only by application and selection by an admissions committee. Prerequisite: Completion of, or concurrent enrollment in, CPR 032 and HEOC 120 and 100 or BIOL 160 or 233 required, or consent of Instructional Unit. HEOC 125 strongly recommended but not required.

ENGINEERING

BLUEPRINT READING

ENGR 051 F 4 Credits
30 hours of lecture 20 hours of lab

A preparatory class for students without prior drafting knowledge or experience. Understanding engineering drawings. Interpretation of lines, symbols, dimensions, notes, etc. Review of ANSI and ISO drafting standards. Examination of geometric dimensioning and tolerancing as it applies to the drawing. Visualization of orthographic projections, auxiliary views, and descriptive geometry. Use of engineering, architectural, and metric scales.

HP GRAPHING CALCULATOR

ENGR 080 F, W, Sp 1 Credit
10 hours of lecture

Basic and advanced calculator function. Graphing matrices, statistics, conversions, programming and directories are included. Additional topics are covered as required. Developed to help students become more proficient using their HP calculators. Prerequisite: "C" or better in MATH 030.

INTRO TO AEROSPACE ENGINEERING

ENGR 107 Sp 2 Credits
10 hours of lecture 20 hours of lab

Introduction to general aerospace industry topics: lift, drag, propulsion, performance, stability and control, design, and testing. Includes a team approach to design activities such as paper aircraft design and high powered rocket construction. Prerequisite: MATH 095 eligibility.

GENERAL ENGINEERING

ENGR 110 F, W, Sp 5 Credits
50 hours of lecture

A course to assist engineering students with career and educational choices. Applied mathematics and engineering problem solving techniques will be illustrated. Suggested for students that intend to major in engineering but are not prepared to enroll in ENGR 111.

INTRODUCTION TO ENGINEERING

ENGR 111 F, W, Sp 5 Credits
50 hours of lecture

Introduction to the engineering profession: its branches, principles, and practices. Engineering problem-solving, methods of analysis and design, and an introduction to engineering fundamentals. Prerequisite: MATH 103 or equivalent, and completion of, or concurrent enrollment in MATH 111 or equivalent.

ENGINEERING GRAPHICS

ENGR 112 F 3 Credits
10 hours of lecture 40 hours of lab

Elements of technical graphical communication as used in engineering, design, and manufacturing. Through a combination of freehand sketching techniques as well as the use of scales and triangles, you will solve drawing problems in orthographic multiview, auxiliary, and isometric projections, section views, descriptive geometry, and dimensioning/tolerancing. Prerequisite: Eligibility for MATH 095 or higher.

BASIC AUTOCAD

ENGR 114 F, W 3 Credits
10 hours of lecture 40 hours of lab

Basics of AutoCAD, using current version of the software: screen features, drawing and editing objects, working with 2D and 3D, using both model space and layouts, opening and saving files, and using templates.

GEOMETRIC DIMENSIONING AND TOLERANCING

ENGR 115 W 2 Credits
10 hours of lecture 20 hours of lab

Basics of geometric dimensioning and tolerancing: what it is and why use it, GDT symbols and their use, maximum and least material conditions, datums, and geometric characteristics. AutoCAD will be used to dimension drawings using GDT. Prerequisite: ENGR 112 and 114, or consent of Instructional Unit.

ARCHITECTURE

ENGR 140 W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Architecture including design, construction, and engineering for the non-major. Student works with programmed materials and reports to the instructor during engineering graphics class.

BASIC SOLIDWORKS

ENGR 150 Sp 3 Credits
10 hours of lecture 40 hours of lab

Parametric solids modeling with SolidWorks, covering the breadth of the software at a basic level. Create part, assembly, and drawing files, including design tables and multiple configurations. Recommended for anyone with the good computer skills.

COOPERATIVE WORK EXPERIENCE

ENGR 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200. Prerequisite: Consent of Instructional Unit.

STATICS

ENGR 211 F, Sp 5 Credits
50 hours of lecture

Solution of two and three dimensional vector systems using vector algebra notation and free-body diagrams. Friction, centroids, moment of inertia, radius of gyration, and loads involved in structures, machines, and trusses. Prerequisite: MATH 211.

STRENGTH OF MATERIALS

ENGR 212 Sp 5 Credits
50 hours of lecture

Concepts of stress and strain for deformable objects. Axial, torsional and bending loading; combined loadings. Column loading and stability with other applied topics. Prerequisite: ENGR 211 and MATH 211.

DYNAMICS

ENGR 213 W 5 Credits
50 hours of lecture

Kinematics and kinetics of particles, systems of particles and rigid bodies. Force/acceleration, work/energy and impulse/momentum problem solving techniques will be applied to two and three dimensional systems. Prerequisite: ENGR 211 and MATH 211.

AUTOCAD CUSTOMIZATION

ENGR 214 Sp 3 Credits
10 hours of lecture 40 hours of lab

Advanced AutoCAD development. Customization and programming AutoLISP. Prerequisite: ENGR 114 or consent of Instructional Unit.

MATERIALS SCIENCE

ENGR 221 Sp 5 Credits
50 hours of lecture

Basic structure and properties of materials. Phase equilibrium and transformations. Mechanical properties, electronic structure, thermal, electrical, and magnetic properties. Prerequisite: CHEM 132.

MANUFACTURING PROCESSES

ENGR 239 Sp 5 Credits
30 hours of lecture 40 hours of lab

Introduction to manufacturing processes, emphasizing methods and practices used when machining, welding, and fabricating metals and related materials.

DIGITAL LOGIC DESIGN

ENGR 250 F 5 Credits
40 hours of lecture 30 hours of lab

Introduction to design of electronic logic circuits and elementary circuit concepts with exposure to integrated circuits. Concurrent enrollment in MATH 212. Prerequisite: MATH 211.

ELECTRICAL CIRCUITS

ENGR 251 F 5 Credits
40 hours of lecture 30 hours of lab

Basic concepts of AC and DC electrical circuits. Voltage and current relationships for series and parallel circuits. Use of Kirchhoff's laws and Thevenin and Norton theorems. Use of test and measurement equipment in a laboratory setting. Prerequisite: MATH 211.

ELECTRICAL CIRCUITS

ENGR 252 W 5 Credits
40 hours of lecture 30 hours of lab

Continuation of ENGR 251. Steady state and transient circuit behavior. Sinusoidal steady state, phasor concepts, and polyphase circuits. Prerequisite: ENGR 251.

ELECTRICAL CIRCUITS

ENGR 253 Sp 5 Credits
40 hours of lecture 30 hours of lab

Electrical circuit analysis using frequency domain Laplace and Fourier transforms. Topics include functional and operational transforms the transfer function and frequency selective circuits. Prerequisite: ENGR 252.

SELECTED TOPICS

ENGR 280 F, W, Sp 1-5 Credits
50 hours of lecture

The course focuses on selected topics in Engineering. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

ENGR 290 F, W, Sp 1-6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ENGLISH

WRITING FUNDAMENTALS

ENGL 097 Su, F, W, Sp 3 Credits
30 hours of lecture

Emphasis on writing complete, correct sentences and unified, coherent, well-developed paragraphs. Short essays and selected readings assigned. Students build skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: Recommending score on the College writing skills placement test for ENGL 097.

WRITING FUNDAMENTALS

ENGL 098 Su, F, W, Sp 3 Credits
30 hours of lecture

Emphasis on expository writing and increasing control of grammar and mechanics. Skills include summarizing and writing essays. Students develop skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: A grade of "C" or better in ENGL 097, or recommending score on the College writing skills placement test for ENGL 098.

WRITING FUNDAMENTALS

ENGL 099 F, W, Sp 3 Credits
30 hours of lecture

Continuation of expository writing and introduction to reasoning skills. Response to electronic and print texts. Ongoing focus on improving grammar and mechanics. Students improve skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: A grade of "C" or better in ENGL 098.

ENGLISH COMPOSITION

ENGL 101 Su, F, W, Sp 3 Credits
30 hours of lecture

Exposition and argument, emphasizing critical thinking in response to electronic and print texts. Focus on exploring, developing, and communicating ideas in a voice appropriate to the audience. Students strengthen skills through pre-writing, drafting, revising, and editing. In-class and out-of-class essays required. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the College writing skills placement test for ENGL 101.

ENGLISH COMPOSITION

ENGL 102 Su, F, W, Sp 3 Credits
30 hours of lecture

Continued studies in exposition and argument emphasizing the research paper. Focus on analysis and synthesis of electronic and print texts in the context of supporting the writer's ideas with appropriate documentation. Students refine skills through pre-writing, drafting, revising, and editing. Prerequisite: A grade of "C" or better in ENGL 101.

ADVANCED ENGLISH COMPOSITION

ENGL 103 F, W, Sp 3 Credits
30 hours of lecture

Emphasis on composing essays on complex ideas of cultural importance. Assignments based on reading and research in art, science, philosophy, and politics. Prerequisite: ENGL 102.

ENGLISH GRAMMAR

ENGL 105 Sp 3 Credits
30 hours of lecture

Description and analysis of the structure of English language, using traditional grammar and syntax. Designed to fulfill the grammar requirement for English majors seeking Washington State teacher certification in English.

TECHNICAL REPORT WRITING I

ENGL 111 F, W, Sp 3 Credits
30 hours of lecture

Computer assisted class focusing on principles for developing work-world documents. Theory and intensive practice. Emphasis on organization, format, and style for producing correspondence and reports. For students of all scientific, technical, and professional fields. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the college writing skills placement test for ENGL 101.

CREATIVE WRITING

ENGL 121 F 3 Credits
30 hours of lecture

Students may restrict themselves to writing poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the college writing skills placement test for ENGL 101.

CREATIVE WRITING

ENGL 122 W 3 Credits
30 hours of lecture

Students may write poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or recommending score on the college writing skills placement test for ENGL 101.

CREATIVE WRITING

ENGL 123 Sp 3 Credits
30 hours of lecture

Students may write poetry, short stories, plays or may choose to work in several forms. Helps students determine what they will say and how they will say it. Prerequisite: A grade of "B" or better in ENGL 098, a grade of "C" or better in ENGL 099, or a recommending score on the college writing skills placement test for ENGL 101.

FICTION WRITING

ENGL 125 F, W, Sp 3 Credits
30 hours of lecture

Class workshop of students' fiction. Develops skills for self-criticism and assists with strategies for publication.

POETRY WRITING

ENGL 126 Sp 3 Credits
30 hours of lecture

Class discussion of student work, development of tools for self-criticism, and strategies for getting poetry published.

INTRODUCTION TO LITERATURE

ENGL 130 Su, F, W, Sp 3 Credits
30 hours of lecture

An introduction to poetry, fiction, and dramatic literature, and to the language and principles of literary analysis.

INTRODUCTION TO POETRY

ENGL 131 Su, F, W, Sp 3 Credits
30 hours of lecture

Study of poetry, poetic forms, and the language and principles of literary analysis.

INTRODUCTION TO DRAMATIC LITERATURE

ENGL 132 Su, F, W, Sp 3 Credits
30 hours of lecture

Study of drama as both literature and theater, from historical, philosophical and artistic perspectives.

INTRODUCTION TO FICTION

ENGL 133 Su, F, W, Sp 3 Credits
30 hours of lecture

Study of fiction in both short story and novel form, including classic and contemporary examples. Introduction to the language and principles of literary analysis.

WOMEN IN LITERATURE

ENGL 140 Sp 3 Credits
30 hours of lecture

Study of fiction, nonfiction, poetry, and drama written by women reflecting the female experience.

SCIENCE FICTION AND FANTASY

ENGL 143 W 3 Credits
30 hours of lecture

Study of speculative fiction from fantasy to hard science with attempts to define its particular qualities and place in modern literature.

INTRODUCTION TO CLASSICAL MYTHOLOGY

ENGL 150 W 3 Credits
30 hours of lecture

Study of significant world myths, including their sources and literary expressions.

THE BIBLE AS LITERATURE

ENGL 152 F, Sp 3 Credits
30 hours of lecture

Study of the varied genres of Biblical literature from literary, historical, and cultural perspectives.

THE NOVEL

ENGL 157 F 3 Credits
30 hours of lecture

Historical development of the novel and study of its forms from eighteenth to mid-nineteenth century.

THE NOVEL

ENGL 158 W 3 Credits
30 hours of lecture

Historical development of the novel and study of its forms from mid-nineteenth to twentieth century.

THE NOVEL

ENGL 159 Sp 3 Credits
30 hours of lecture

Historical development of the novel and study of its forms in the twentieth century.

COOPERATIVE WORK EXPERIENCE

ENGL 199 Su, F, W, Sp 1-5 Credits

For students interested in careers that emphasize writing, co-op work experience offers credit for supervised work in writing-related jobs. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

TECHNICAL REPORT WRITING II

ENGL 211 W, Sp 3 Credits
30 hours of lecture

Computer assisted class focusing on advanced writing of typical work-world documents. Theory and intensive practice. Emphasis on effective written products, including correspondence and various reports. For students in all scientific, technical, and professional fields. Prerequisite: ENGL 111 or ENGL 101 and ENGR 111.

BUSINESS COMMUNICATIONS

ENGL 212 F, W, Sp 3 Credits
30 hours of lecture

Writing the many types of business messages to increase their power and effectiveness. Importance of both written and oral communications particularly letters, reports, memoranda, telegrams, and other messages. Same as BUS 211. Prerequisite: ENGL 101 or consent of Instructional Unit.

English

FICTION WRITING

ENGL 225 F, W, Sp 3 Credits
30 hours of lecture

Class workshop of students' original fiction. Develops skills for self-criticism and assists with strategies for publication. Prerequisite: ENGL 125.

POETRY WRITING

ENGL 226 F, Sp 3 Credits
30 hours of lecture

Continuation of ENGL 126. Further development of the principles of writing and marketing poetry. Prerequisite: ENGL 126.

WORLD LITERATURE

ENGL 260 F 3 Credits
30 hours of lecture

Masterpieces of the Ancient World through the fourteenth century. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 recommended.

WORLD LITERATURE

ENGL 261 W 3 Credits
30 hours of lecture

Masterpieces from the fifteenth century through the eighteenth century. Literature is read within its historical and cultural settings. Eligibility for ENGL 101 recommended.

WORLD LITERATURE

ENGL 262 Sp 3 Credits
30 hours of lecture

Masterpieces of world literature from the nineteenth century through the contemporary period. Literature is read within its historical and cultural settings. Eligibility for ENGL 101 recommended.

BRITISH LITERATURE

ENGL 264 F 3 Credits
30 hours of lecture

Classics of British literature from the eighth to the seventeenth century. Literature is read within its historical and cultural settings. Eligibility for ENGL 101 recommended.

BRITISH LITERATURE

ENGL 265 W 3 Credits
30 hours of lecture

Classics of British literature from the seventeenth to the nineteenth century. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 recommended.

BRITISH LITERATURE

ENGL 266 Sp 3 Credits
30 hours of lecture

Classics of British literature from the nineteenth century to the present. Literature is read within its historical and cultural settings. Eligibility for ENGL 101 recommended.

AMERICAN LITERATURE

ENGL 268 F 3 Credits
30 hours of lecture

Survey of American writing from the colonial period to the Civil War. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 recommended.

AMERICAN LITERATURE

ENGL 269 W 3 Credits
30 hours of lecture

Survey of American writing from the Civil War through World War I. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 recommended.

AMERICAN LITERATURE

ENGL 270 Sp 3 Credits
30 hours of lecture

Survey of American writing from World War I to the present. Literature is read within its historical and cultural setting. Eligibility for ENGL 101 recommended.

MULTICULTURAL LITERATURE OF NATURE

ENGL 271 F, W 3 Credits
30 hours of lecture

Reading American and world writers who have made "nature" and the human connection or disconnection from it a major theme, particularly in the last two centuries. Contested definitions from various gendered and multicultural perspectives are encountered in fiction, poetry, and nonfiction, illustrating the role of conventions, culture, and history in the interpretation of literature.

INTRODUCTION TO SHAKESPEARE

ENGL 272 F, W, Sp 3 Credits
30 hours of lecture

Readings of selected tragedy, comedy and historical plays of Shakespeare. Eligibility for ENGL 101 recommended.

SELECTED TOPICS

ENGL 280 Su, F, W, Sp 1-3 Credits
30 hours of lecture

Course focuses on selected topics in English. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

ENGL 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ENGLISH AS A NON-NATIVE LANGUAGE

COMPUTER LITERACY FOR ENL STUDENTS

ENL 033 F, W, Sp 1 Credit
10 hours of lecture

Introduction to Internet, word processing and e-mail. Prerequisite: Recommending TOEFL/SLEP score or consent of ENL advisor.

GRAMMAR 3

ENL 053 F, W, Sp 3 Credits
30 hours of lecture

Intermediate grammar course focusing on the application and correct use of grammar when speaking and writing fairly simple academic English. Prerequisite: Recommending TOEFL/SLEP score or consent of ENL advisor.

GRAMMAR 4

ENL 054 F, W, Sp 3 Credits
30 hours of lecture

Intermediate grammar course focusing on the application and correct use of English grammar when communicating complex thoughts in writing or in spoken form. Prerequisite: Recommending TOEFL/SLEP score, or a grade of "C" or better in ENL 053, or written consent of ENL advisor.

GRAMMAR 5

ENL 055 F, W, Sp 3 Credits
30 hours of lecture

Continuation of ENL 054. Advanced study of English grammar and its structure with emphasis on application. Prerequisite: TOEFL/SLEP score, or a grade of "C" or better in ENL 054, and written consent of ENL advisor.

READING, ORAL AND STUDY SKILLS

ENL 063 F, W, Sp 6 Credits
60 hours of lecture

Developing reading, vocabulary, oral, and study skills needed to perform simple academic tasks in English. Prerequisite: Recommending SLEP/TOEFL scores or written consent of ENL advisor.

READING, ORAL AND RESEARCH SKILLS

ENL 064 F, W, Sp 6 Credits
60 hours of lecture

Developing reading, vocabulary, oral, and basic research skills needed to complete more complex academic tasks in English. Prerequisite: Recommending TOEFL/SLEP score or grade of "C" or better in ENL 063, or written consent of ENL advisor.

COMPOSITION 3

ENL 073 F, W, Sp 3 Credits
30 hours of lecture

Intermediate course focusing on the written structure of the English language at the sentence and paragraph levels. Prerequisite: Recommending TOEFL/SLEP score and completion of, or concurrent enrollment in ENL 053 and 063, or written consent of ENL advisor.

COMPOSITION 4

ENL 074 F, W, Sp 3 Credits
30 hours of lecture

Intermediate course focusing on the written structure of the English language at the paragraph and five-paragraph levels. Prerequisite: Recommending TOEFL/SLEP score and successful completion of, or concurrent enrollment in ENL 054 and 064, or written consent of ENL Advisor.

COMPOSITION 5

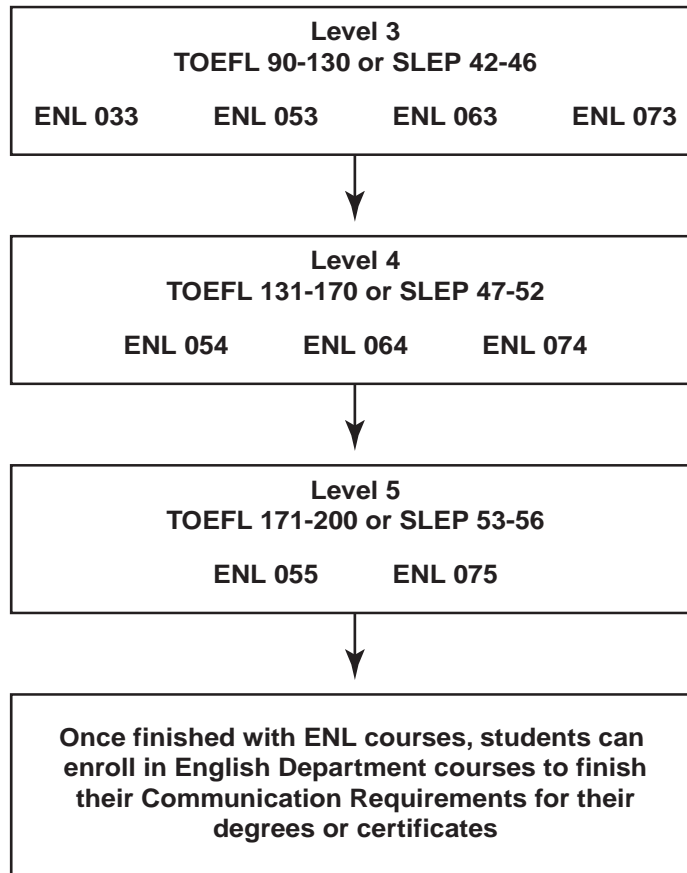
ENL 075 Su, F, W, Sp 5 Credits
50 hours of lecture

Adapted to the student's needs in such areas as, essay development, usage of appropriate vocabulary and idioms, and development of the research paper. Depending on progress shown, student may mainstream to an English composition class at the end of the quarter after instructor's approval. Prerequisite: Recommending TOEFL/SLEP score or a grade of "C" or better in ENL 074, and written consent of ENL Advisor.

Choosing the Right English Class for the Non-Native Speaker

The English as a Non-Native Language (ENL) offers students the opportunity to develop the necessary language skills to participate in mainstream college-level classes. Students are placed in the appropriate level class based on their TOEFL, or SLEP/writing sample scores. SLEP testing can be scheduled at the Testing Center, 992-2648.

SLEP/TOEFL Requirements and Course Sequence:



ENGLISH AS A SECOND LANGUAGE

ESL LISTENING AND SPEAKING, LEVEL I

ESL 011 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers beginning listening and speaking elements of the English language, demonstrating state-mandated competencies. Successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: Recommended score on ESL placement test.

ESL READING AND WRITING, LEVEL I

ESL 012 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers beginning reading and writing elements of the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of reading and writing objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: Recommending score on ESL placement test.

ESL KEYBOARDING/WORD PROCESSING

ESL 016 Su, F, W, Sp 1-2 Credits
40 hours of lab

Basic keyboarding and word processing skill development. Students must be enrolled in levels 3 or 4 unless they have the instructor's permission.

PRONUNCIATION AND ACCENT CORRECTION I

ESL 017 Su, F, W, Sp 2 Credits
20 hours of lecture

Production and distinction of and the vowel/consonant in words, phrases and sentences in English. Production of simple sentences from dictation. Concurrent enrollment in ESL 021 and 022.

PRONUNCIATION AND ACCENT CORRECTION II

ESL 018 Su, F, W, Sp 2 Credits
20 hours of lecture

Pronunciation of the most troublesome sounds of English, including "th", "r" and "l". Stress at the word phrase and sentence level. Using proper intonation for statement and questions. Concurrent enrollment in ESL 023 and 024.

ENGLISH AS A SECOND LANGUAGE MATH

ESL 020 Su, F, W, Sp 2 Credits
20 hours of lecture

Math competencies as listed in the Washington State Basic Skills Competency Indicators and Competencies. Concurrent enrollment in level 3 or higher.

ESL LISTENING AND SPEAKING, LEVEL II

ESL 021 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers high-beginning listening and speaking elements of the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 011 and 012 or recommending score on ESL placement test.

ESL READING AND WRITING, LEVEL II

ESL 022 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers high-beginning reading and writing elements of the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 011 and 012 or recommending score on ESL placement test.

CITIZENSHIP

ESL 030 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Provides limited English speakers with a basic understanding of American government and the workings of a democracy. Preparation for taking the U.S. Citizenship examination. No charge.

ESL LISTENING AND SPEAKING, LEVEL III

ESL 031 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers basic elements of listening and speaking the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 021 and 022 or recommending score on ESL placement test.

ESL READING AND WRITING, LEVEL III

ESL 032 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers basic elements of reading and writing the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 021 and 022 or recommending score on ESL placement test.

English as a Second Language

ESL LISTENING AND SPEAKING, LEVEL IV

ESL 041 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers intermediate elements of listening and speaking the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 031 and 032 or recommending score on ESL placement test.

ESL READING AND WRITING, LEVEL IV

ESL 042 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers intermediate elements of reading and writing the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to read and write Equipped for the Future (EFF) documents at the appropriate level in the context of family, community and work. Prerequisite: ESL 031 and 032 or recommending score on ESL placement test.

ESL LISTENING AND SPEAKING, LEVEL V

ESL 051 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers high-intermediate elements of listening and speaking the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 041 and 042 or recommending score on ESL placement test.

ESL READING AND WRITING, LEVEL V

ESL 052 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers high-intermediate elements of reading and writing the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to read and write Equipped for the Future (EFF) documents at the appropriate level in the context of family, community and work. Prerequisite: ESL 041 and 042 or recommending score on ESL placement test.

ESL LISTENING AND SPEAKING, LEVEL VI

ESL 061 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers advanced elements of listening and speaking the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of aural and oral objectives from Equipped for the Future (EFF) in the context of family, community and work. Prerequisite: ESL 051 and 052 or recommending score on ESL placement test.

ESL READING AND WRITING, LEVEL VI

ESL 062 Su, F, W, Sp 6 Credits
60 hours of lecture

Covers advanced elements of reading and writing the English language, demonstrating state-mandated competencies. Upon completion, successful students should be able to demonstrate performance of reading and writing objectives from Equipped for the Future (EFF) in the context of family. Prerequisite: ESL 041 and 042 or recommending score on ESL placement test.

ESL SELECTED TOPICS

ESL 080 Su, F, W, Sp 1-10 Credits
100 hours of lecture

Course will focus on selected ESL topics. Course theme and content will change to reflect the new topic. Because of the variations, this course is repeatable for credit for different topics.

ENVIRONMENTAL SCIENCE

INTRODUCTION TO ENVIRONMENTAL MODELING

ENSC 210 F 5 Credits
50 hours of lecture

The utility of system dynamics modeling for understanding complex systems related to environmental science and regional planning is emphasized. Existing models of natural systems are used by the students to help become familiar with fundamental processes responsible for the behavior of these systems. The course is intended to develop critical thinking skills which are essential for the analysis of complex non-linear systems with multiple internal feedback loops. Upon completion of this course, students will be able to design their own mathematical models of systems familiar to them, and understand the usefulness and limitations of such models. Prerequisite: A grade of "C" or better in MATH 095.

SELECTED TOPICS

ENSC 280 F 1-5 Credits
50 hours of lecture

Varying topics in Environmental Science as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: Consent of Instructional Unit.

FAMILY LIFE - PARENT/CHILD

PARENT/BABY WORKSHOP

FLPC 004 Su 1 Credit
10 hours of lecture

Learning activities, music and movement, parenting topics and guided interaction between parent and baby.

PARENT/TODDLER WORKSHOP

FLPC 014 1 Credit
10 hours of lecture

Learning activities to enhance development. Sensory/motor experiences, parenting topics and guided interaction between parent and child.

PRESCHOOL ENRICHMENT

FLPC 031 F 1 Credit
5 hours of lecture 10 hour Lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2179 before enrolling.

PRESCHOOL ENRICHMENT

FLPC 032 W 1 Credit
5 hours of lecture 10 hour Lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2179 before enrolling.

PRESCHOOL ENRICHMENT

FLPC 033 Sp 1 Credit
5 hours of lecture 10 hour Lab

Activities to encourage creativity and creative thinking in preschool children. Parent attends orientation class and children's lab class for 4 sessions. Child attends weekly. Contact department 992-2179 before enrolling.

PRESCHOOL WORKSHOP

FLPC 034 1 Credit
10 hours of lecture

For children aged 2 1/2 to 5. Learning and play activities for children. Parents gain skills by aiding in the preschool classroom. Child development, cognitive and social development.

PRESCHOOL ENRICHMENT WORKSHOPS

FLPC 044 1 Credit
10 hours of lecture

Activities to encourage creativity and creative thinking in preschool children.

Family Life - Parent/Child

WE CARE

FLPC 070 1-2 Credits
20 hours of lecture

Basic child development, parenting skills, positive child guidance, hygiene, nutrition, and health care for parents with parenting difficulties. By referral only. Contact department before enrolling, 992-2179.

INDEPENDENT LIVING

FLPC 080 Sp 3 Credits
30 hours of lecture

Provides foster parents with the knowledge and skills necessary to assess the readiness of, and prepare adolescents for, independent living.

PARENT AND INFANT

FLPC 101 F 1-2 Credits
20 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2179.

PARENT AND INFANT

FLPC 102 W 1-2 Credits
20 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2179.

PARENT/INFANT

FLPC 103 Sp 1-2 Credits
20 hours of lecture

Parent participation class for parents and their babies, newborn to walking. Includes discussions on infant development, child care practices, and parenting techniques. Guided interaction between parent and baby. Activities to stimulate baby's development. Contact department before enrolling, 992-2179.

PARENT/TODDLER

FLPC 111 F 1-2 Credits
20 hours of lecture

Parent participation class for parents and their walking to 2 1/2-year-old child. Child development, guidance techniques, toilet training, developmental stages, health, safety, and nutrition information for parents. Social and developmental activities for the toddlers. Two hours per week. Parent attends additional monthly meeting. Contact department before enrolling, 992-2179.

PARENT/TODDLER

FLPC 112 W 1-2 Credits
20 hours of lecture

Parent participation class for parents and their walking to 2 1/2-year-old child. Child development, guidance techniques, toilet training, developmental stages, health, safety, and nutrition information for parents. Social and developmental activities for toddlers. Two hours per week. Parent attends additional monthly meeting. Contact department before enrolling, 992-2179.

PARENT/TODDLER

FLPC 113 Sp 1-2 Credits
20 hours of lecture

Parent participation class for parents and their walking to 2 1/2-year-old child. Child development, guidance techniques, toilet training, developmental stages, health, safety, and nutritional information for parents. Social and developmental activities for toddlers. Two hours per week. Parent attends additional monthly meeting. Contact department before enrolling, 992-2179.

PARENT/TODDLER

FLPC 114 F, W, Sp 1-2 Credits
20 hours of lecture

Learning experiences for parents and children just walking to 3 years. Parents attend class with child each time and attend an evening orientation. Credit varies with number of days attended per week.

PARENT/CHILD

FLPC 131 F 1-3 Credits
10 hours of lecture 40 hours of lab

Parent participation class for parents and their 2 1/2 - 6 year old child. Parent observes and attends parenting classes to learn appropriate environment and develop skills to stimulate the child's maturation based on learning styles and developmental stages. Child attends class 2-4 times per week. Contact department before enrolling, 992-2179.

PARENT/CHILD

FLPC 132 W 1-3 Credits
10 hours of lecture 40 hours of lab

Parent participation class for parents and their 2 1/2 - 6 year old child. Parent observes and attends parenting classes to learn appropriate environment and develop skills to stimulate the child's maturation based on learning styles and developmental stages. Child attends class 2-4 times per week. Contact department before enrolling, 992-2179.

PARENT/CHILD

FLPC 133 Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Parent participation class for parents and their 2 1/2 - 6 year old child. Parent observes and attends parenting classes to learn appropriate environment and develop skills to stimulate the child's maturation based on learning styles and developmental stages. Child attends class 2-4 times per week. Contact department before enrolling, 992-2179.

PARENT COOPERATIVE PRESCHOOL

FLPC 135 F 1-3 Credits
10 hours of lecture 40 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children 2 1/2 - 6 participate in 2 1/2 hour classes. Contact department before enrolling, 992-2179. Credit varies with amount of parent participation.

PARENT COOPERATIVE PRESCHOOL

FLPC 136 W 1-3 Credits
10 hours of lecture 40 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children 2 1/2 - 6 participate in 2 1/2 hour classes. Contact department before enrolling, 992-2179. Credit varies with amount of parent participation.

PARENT COOPERATIVE PRESCHOOL

FLPC 137 Sp 1-3 Credits
10 hours of lecture 40 hours of lab

Preschool experiences for children. Practice in parenting skills. Parents serve as aides to the teacher in the classroom 4-5 times a quarter, work on committees, and attend monthly meetings. Children 2 1/2 - 6 participate in 2 1/2 hour classes. Contact department before enrolling, 992-2179. Credit varies with amount of parent participation.

RAISING A RESPONSIBLE CHILD

FLPC 150 2 Credits
20 hours of lecture

Basic Dreikurs study-discussion group for parents of both pre- and elementary schoolers, with emphasis on child discipline and improving parent-child relationships. Alternatives to reward and punishment; handling struggles for attention and power.

FAMILY CARE PROGRAMS

FLPC 151 3 Credits
30 hours of lecture

Training for parents providing child care in their homes. Child development and discipline, health, safety, nutrition and curriculum activities.

FOSTER CARE PARENTING I

FLPC 153 F 5 Credits
40 hours of lecture 20 hours of lab

Training for parents providing foster care. Characteristics of foster children, personality development, child abuse and neglect. Foster parent survival, separation of child from natural parents, and interagency functions. Permission required to enroll.

SYSTEMATIC TRAINING FOR EFFECTIVE PARENTING

FLPC 156 2 Credits
20 hours of lecture

A practical approach to parent-child relations. Learn how to communicate effectively and avoid discipline problems.

PARENT EFFECTIVENESS TRAINING

FLPC 160 2 Credits
20 hours of lecture

Learn to relate on an equal basis with others, children and adults, with a "no lose" conflict method. Training in active listening and honest, open communication skills, with a full expression of feelings, needs, and values.

SINGLE PARENT SURVIVAL

FLPC 161 F 1 Credit
10 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact department before enrolling, 992-2179.

SINGLE PARENT SURVIVAL

FLPC 162 W 1 Credit
10 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact department before enrolling, 992-2179.

Family Life - Parent/Child

SINGLE PARENT SURVIVAL

FLPC 163 Sp 1 Credit
10 hours of lecture

Parent participation workshops for single parents and their children. Family meal and discussion of nutrition and parenting skills. Support group for parents, problem solving, and participation in children's classroom. Contact 699-0179 before enrolling.

PARENTING WORKSHOPS

FLPC 164 1-3 Credits
30 hours of lecture

Tools for today's parents. Workshops on specific concerns of parents such as teenage drug abuse, sexuality, runaways, working more effectively with the school system, and keeping your family together.

FATHER/CHILD WORKSHOP

FLPC 168 1 Credit
10 hours of lecture

Enhancing father-child relations through guided activities and lecture/discussion. Father and child attend together. Workshop on varying topics based on age of children participating. Contact 699-0179 before enrolling.

PARENT AND CHILD

FLPC 171 F 1-2 Credits
20 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2179.

PARENT AND CHILD

FLPC 172 W 1-2 Credits
20 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2179.

PARENT AND CHILD

FLPC 173 Sp 1-2 Credits
20 hours of lecture

Parent participation preschool for working parents and their 2 1/2 to 6-year-old children. Establish nurturing relationships with children and provide opportunities for the development of competence and individuality. Contact department before enrolling, 992-2179.

PARENT EDUCATION FOR PARENTS WITH SIBLINGS

FLPC 181 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Child growth and development. Multi-aged classroom. Parents and children attend class together. Planned learning experiences for babies, toddlers, and preschoolers. Seminars and parent participation related to siblings and family relationships.

FAMILY LIVING SKILLS

FLPC 184 F 1-2 Credits
10 hours of lecture 20 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2179.

FAMILY LIVING SKILLS

FLPC 185 W 1-2 Credits
10 hours of lecture 20 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2179.

FAMILY LIVING SKILLS

FLPC 186 Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Explore alternatives to everyday challenges of parenting and home management. Contact department before enrolling, 992-2179.

PRINCIPLES OF CHILD GUIDANCE

FLPC 268 2 Credits
20 hours of lecture

Effecting family relationships through principles of child management. Theory and practical applications, lecture-demonstrations of family counseling techniques. Parent and child groups.

FOOD SERVICE

FOOD SERVICE

FOOD 102 F 10 Credits
50 hours of lecture 100 hours of lab

Line and line backup, serving methods, portion control, and cash register training.

FOOD SERVICE

FOOD 103 W 10 Credits
50 hours of lecture 100 hours of lab

Continuation of FOOD 102, with greater emphasis on particular line positions and their interactions with the whole line's purpose.

FOOD SERVICE

FOOD 104 Sp 10 Credits
50 hours of lecture 100 hours of lab

Continuation of FOOD 103 with further emphasis on line positions and an analysis of customer relations.

FOOD SERVICE

FOOD 105 Su 10 Credits
50 hours of lecture 100 hours of lab

Serving under banquet, catering, fast food and take-out conditions. Preparation and clean up.

COOKING THEORY

FOOD 111 F 5 Credits
50 hours of lecture

Theory including equipment safety, kitchen methods, soups, stocks, and salads. Concurrent enrollment in FOOD 112 required.

FOOD PRODUCTION

FOOD 112 F 8 Credits
40 hours of lecture 80 hours of lab

Sanitation, safety, entrees, casseroles, fruit, and quick breads. Careers in the food industry. Concurrent enrollment in FOOD 111 required.

COOKING THEORY

FOOD 113 W 5 Credits
50 hours of lecture

Theory including sanitation, safety, entrees, casseroles, fruit, quick breads, and careers in the food industry. Also includes garde manger (food decoration). Concurrent enrollment in FOOD 114 required.

FOOD PRODUCTION

FOOD 114 W 8 Credits
40 hours of lecture 80 hours of lab

Continuation of FOOD 112. Production cooking and management related to topics covered in FOOD 113. Concurrent enrollment in FOOD 113 required.

COOKING THEORY

FOOD 115 Sp 5 Credits
50 hours of lecture

Theory including safety, sanitation, vegetable preparation, desserts, and job interviewing. Concurrent enrollment in FOOD 116 required.

FOOD PRODUCTION

FOOD 116 Sp 8 Credits
40 hours of lecture 80 hours of lab

Continuation of FOOD 114. Production cooking and management related to topics covered in FOOD 115. Concurrent enrollment in FOOD 115 required.

COOKING THEORY

FOOD 117 Su 5 Credits
50 hours of lecture

Problems involved in preparation for banquets, catering, fast food and take-out food services. Concurrent enrollment in FOOD 118 required.

FOOD PRODUCTION

FOOD 118 Su 8 Credits
40 hours of lecture 80 hours of lab

Banquet, catering, deli and fast food. Concurrent enrollment in FOOD 117 required.

KITCHEN SET-UP

FOOD 120 F 3 Credits
10 hours of lecture 40 hours of lab

Opening up a kitchen, inventorying food, setting-up food stations, turning on all equipment, pre-planning the day's activities, and breakfast cooking.

KITCHEN SET-UP

FOOD 121 W 3 Credits
10 hours of lecture 40 hours of lab

Continuation of FOOD 120 with further emphasis on efficient kitchen operations. Prerequisite: FOOD 120.

Food Service

KITCHEN SET-UP

FOOD 122 Sp 3 Credits
10 hours of lecture 40 hours of lab

Learning kitchen equipment set-up. Getting kitchen stations ready for the day's food preparation.

KITCHEN SET-UP

FOOD 123 Su 3 Credits
10 hours of lecture 40 hours of lab

Setting-up a dining room and working with problems of pre-opening operations.

FOOD DECORATION

FOOD 125 Su, F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Garnishing techniques with fruits and vegetables. Dessert garnishes and basic use of pastry bag and tips.

ADVANCED GARDE MANGER

FOOD 126 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Garnishing techniques with fruits and vegetables. Advanced melon and flower carving. Use of these and other items to create presentation pieces or centerpieces.

HORS D'OEUVRES - PATES

FOOD 127 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Basic preparation of pates and terrines and other related forcemeat preparation — quenelles, galantines, ballotines, etc. Discussion of French terminology, especially pertaining to garde manger - selection, preparation, and presentation of hors d'oeuvres for entertaining.

GUMPASTE FLOWERS

FOOD 128 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Basics of preparing, handling, molding, and drying gumpaste (pastillage) flowers.

ICE CARVING

FOOD 130 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Basic ice carving and display techniques. Use of tools and templates.

DINING ROOM THEORY

FOOD 131 Su, F, W, Sp 4 Credits
40 hours of lecture

Theory and practice of restaurant table service including customer psychology, taking and filling orders, table setting, and styles of service.

DINING ROOM PRODUCTION

FOOD 132 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Organization and set-up of dining room prior to operation, stocking of 'service' stations, and dining table set-up.

DINING ROOM SERVICE

FOOD 133 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Restaurant table service and practice including taking, writing, and placing orders; customer seating and service, cash control, and special problems.

SOUPS AND SAUCES

FOOD 134 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Methods of making basic and advanced soups and sauces.

WINE APPRECIATION

FOOD 140 F, W, Sp 3 Credits
30 hours of lecture

History of wines: how they are made, aged, and stored, along with actual tasting sessions to educate the palate.

MENU PLANNING

FOOD 141 F, W, Sp 3 Credits
30 hours of lecture

Basic principles of nutrition and menu planning.

COOPERATIVE WORK EXPERIENCE

FOOD 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in a hospitality-related job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

MANAGEMENT THEORY

FOOD 223 F 5 Credits
50 hours of lecture

Purchasing, receiving, and inventorying of food supplies. Calculating labor-cost percentages. Concurrent enrollment in FOOD 240 required. Prerequisite: Consent of Instructional Unit.

MANAGEMENT THEORY

FOOD 225 W 5 Credits
50 hours of lecture

Decorating with food, buffet set-ups, hors d'oeuvres, canapes, basic and gourmet food preparation including ice carving and tallow showpieces. Concurrent enrollment in FOOD 241 required. Prerequisite: Consent of Instructional Unit.

MANAGEMENT THEORY

FOOD 227 Sp 5 Credits
50 hours of lecture

Menu analysis, restaurant security, job applications, resumes and interviews. Concurrent enrollment in FOOD 242 required. Prerequisite: Consent of Instructional Unit.

MANAGEMENT THEORY

FOOD 229 Su 5 Credits
50 hours of lecture

Advanced food preparation techniques and classical cooking information. Scheduling and layout for banquets and buffets. Concurrent enrollment in FOOD 243 required. Prerequisite: Consent of Instructional Unit.

BEGINNING MEAT CUTTING

FOOD 235 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Individualized study of meat-cutting techniques related to retail sales and commercial use.

INTERMEDIATE MEAT CUTTING

FOOD 236 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

Study of meat-cutting techniques for beef, pork, poultry, and lamb. Brief overview of cooking techniques for the various cuts of meat. Prerequisite: FOOD 235.

ADVANCED MEAT CUTTING

FOOD 237 F, W, Sp 3 Credits
10 hours of lecture 40 hours of lab

To supply the students with the knowledge, technical skills and information necessary to manage all phases of meat and poultry cutting in a food service operation. Prerequisite: FOOD 235 and 236.

RESTAURANT MANAGEMENT

FOOD 240 F 18 Credits
90 hours of lecture 180 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: Consent of Instructional Unit.

RESTAURANT MANAGEMENT

FOOD 241 W 18 Credits
90 hours of lecture 180 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 240 or consent of Instructional Unit.

RESTAURANT MANAGEMENT

FOOD 242 Sp 18 Credits
90 hours of lecture 180 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 241 or consent of Instructional Unit.

RESTAURANT MANAGEMENT

FOOD 243 Su 18 Credits
90 hours of lecture 180 hours of lab

Practical instruction in restaurant management by working at various management stations. Prerequisite: FOOD 242 or consent of Instructional Unit.

Food Service
Forensic Science

ADVANCED KITCHEN SET-UP

FOOD 250 F 3 Credits
10 hours of lecture 40 hours of lab

Staff management and early morning kitchen set-up.

ADVANCED KITCHEN SET-UP

FOOD 251 W 3 Credits
10 hours of lecture 40 hours of lab

Organization and set-up of management stations.

ADVANCED KITCHEN SET-UP

FOOD 252 Sp 3 Credits
10 hours of lecture 40 hours of lab

Organization and set-up of management stations.

ADVANCED KITCHEN SET-UP

FOOD 253 Su 3 Credits
10 hours of lecture 40 hours of lab

Organization and set-up of management stations.

SPECIAL PROJECTS

FOOD 290 Su, F, W, Sp 1-12 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

FORENSIC SCIENCE

SURVEY OF FORENSIC SCIENCE

FSCI 101 Sp 3 Credits
30 hours of lecture

An introduction to the Forensic Sciences: crime scene analysis and recording, the crime laboratory, Forensic Medicine, Dentistry, Anthropology, Psychology, and other topics.

SELECTED TOPICS: FORENSIC SCIENCE

FSCI 280 3 Credits
30 hours of lecture

Selected topics in the Forensic Sciences as listed in the quarterly schedule. May be repeated for credit. Prerequisite: None/or Law enforcement officers only for some topics.

FRENCH

FIRST-YEAR FRENCH

FREN 101 Su, F, W, Sp 5 Credits
50 hours of lecture

Communicating in French with practice in listening, speaking, writing, and reading. Tapes available for individual practice.

FIRST-YEAR FRENCH

FREN 102 F, W, Sp 5 Credits
50 hours of lecture

Continuation of FREN 101.

FIRST-YEAR FRENCH

FREN 103 W, Sp 5 Credits
50 hours of lecture

Continuation of French 102.

CONVERSATIONAL FRENCH

FREN 121 Su 3 Credits
30 hours of lecture

Intensive practice in French conversation. Discussion in pairs or small groups on topics of interest to those studying French-speaking societies. Prerequisite: Consent of Instructional Unit.

SECOND-YEAR FRENCH

FREN 201 F, W, Sp 3 Credits
30 hours of lecture

Review of basic structures, expansion of conversation, and reading skills.

SECOND-YEAR FRENCH

FREN 202 F, W, Sp 3 Credits
30 hours of lecture

Review of basic structures, expansion of conversation, and reading skills. Prerequisite: FREN 201 or equivalent.

SECOND-YEAR FRENCH

FREN 203 F, W, Sp 3 Credits
30 hours of lecture

Review of basic structures, expansion of conversation, and reading skills. Prerequisite: FREN 202 or equivalent.

SECOND-YEAR FRENCH

FREN 204 F, W, Sp 3 Credits
30 hours of lecture

For students who have completed FREN 203 and wish to continue their language study. Prerequisite: FREN 203 or equivalent.

SECOND-YEAR FRENCH

FREN 205 F, W, Sp 3 Credits
30 hours of lecture

For students who have completed FREN 204 and wish to continue their language study. Prerequisite: FREN 204 or equivalent.

SECOND-YEAR FRENCH

FREN 206 F, W, Sp 3 Credits
30 hours of lecture

For students who have completed FREN 205 and wish to continue their language study. Prerequisite: FREN 205 or equivalent.

SELECTED TOPICS

FREN 280 1-5 Credits
50 hours of lecture

The course focuses on selected topics in French. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

FREN 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

GED**GED WRITING**

GED 011 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Writing a well organized essay with paragraph organization, transitions, introduction and conclusion. Punctuation, capitalization, spelling, grammar, and sentence structure skills are emphasized. Test taking skills are taught and practiced. Fifth of five courses for improvement of basic skills in writing. This course can serve as preparation for the GED Writing Test or as a refresher course for basic skills improvement. Prerequisite: ABE 014 or recommending score on placement test.

GED WRITING

GED 012 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Writing a well organized essay with paragraph organization, transitions, introduction and conclusion. Punctuation, capitalization, spelling, grammar, and sentence structure skills are emphasized. Test taking skills are taught and practiced. Fifth of five courses for improvement of basic skills in writing. This course can serve as preparation for the GED Writing Test or as a refresher course for basic skills improvement. Prerequisite: ABE 014 or recommending score on placement test. Student must have passed 2 or more GED tests.

GED MATH

GED 021 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Elementary algebra, geometry, scientific notation, coordinate graphing, exponents and roots, solving equations, order of operations, and word problems requiring a wide range of math skills. Includes practice on Casio FX260 calculator (used in taking the GED Math Test). Last in a series of courses for improvement of basic skills in math. This course can serve as preparation for the GED Math Test or as a refresher for basic skills improvement. Prerequisite: ABE 024 or recommending score on placement test.

GED MATH

GED 022 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Elementary algebra, geometry, scientific notation, coordinate graphing, exponents and roots, solving equations, order of operations, and word problems requiring a wide range of math skills. Includes practice on Casio FX260 calculator (used in taking the GED Math Test). Last in a series of courses for improvement of basic skills in math. This course can serve as preparation for the GED Math Test or as a refresher for basic skills improvement. Prerequisite: ABE 024 or recommending score on placement test. Student must have passed 2 or more GED tests.

GED READING

GED 031 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Analysis of literature, science and social studies readings. Skills include distinguishing between fact and opinion, understanding elements of style and structure, interpreting charts and graphs, and increasing comprehension. Test taking skills taught and practiced. Last in a series of courses for improvement of basic skills in reading. This course serves as preparation for the GED Reading Tests in Literature, Science and Social Studies, or as a refresher course for basic skills improvement. Prerequisite: ABE 034 or recommending score on placement test.

GED READING

GED 032 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Analysis of literature, science and social studies readings. Skills include distinguishing between fact and opinion, understanding elements of style and structure, interpreting charts and graphs, and increasing comprehension. Test taking skills taught and practiced. Last in a series of courses for improvement of basic skills in reading. This course serves as preparation for the GED Reading Tests in Literature, Science and Social Studies, or as a refresher course for basic skills improvement. Prerequisite: ABE 034 or recommending score on placement test. Students must have passed 2 or more GED tests.

GEOGRAPHY

WORLD PHYSICAL GEOGRAPHY

GEOG 101 F, W, Sp 5 Credits
50 hours of lecture

Survey of our natural environment. Earth-Sun-Moon relationships, cartography, weather and climate, landforms, soils, oceans, and water and biotic resources. Also a survey of the countries and major features of the world.

ECONOMIC GEOGRAPHY

GEOG 107 W 5 Credits
50 hours of lecture

Broad patterns, courses, and consequences of interrelationships between economic and geographic forces, processes, and resources. Location of economic activity, population dynamics, strategic resources, global economic flashpoints, patterns/consequences of regional integration. Same as ECON 107. Credit not allowed for both ECON 107 and GEOG 107.

THE GEOPOLITICS OF THE MIDDLE EAST

GEOG 220 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of the Middle East, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of the Middle East on the rest of the world, as well as the impact and influence of the rest of the world on the Middle East.

THE GEOPOLITICS OF AFRICA

GEOG 221 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of Africa, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of Africa on the rest of the world, as well as examine the impact and influence of the rest of the world on Africa.

THE GEOPOLITICS OF CHINA, JAPAN AND EAST ASIA

GEOG 222 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of China, Japan and East Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of China, Japan and East Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on China, Japan and East Asia.

THE GEOPOLITICS OF SOUTH AND CENTRAL ASIA

GEOG 223 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of South and Central Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of South and Central Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on South and Central Asia.

SELECTED TOPICS

GEOG 280 1-5 Credits
50 hours of lecture

Course focuses on selected topics in Geography. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

GEOG 290 W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

GEOLOGY

INTRO TO GEOL I: ROCKS & THE DYNAMIC INNER EARTH

GEOL 101 F, W, Sp 5 Credits
30 hours of lecture 40 hours of lab

A dynamic earth, geologic time, origin and identification of minerals and rocks. Volcanoes, earthquakes and the structure of earth in light of plate tectonic theory. One day field trip required.

INTRO TO GEOLOGY II: EARTH'S SURFACE PROCESSES

GEOL 102 F, W, Sp 5 Credits
30 hours of lecture 40 hours of lab

Plate tectonics and the origin of ocean basins and continents. Mass wasting, glaciation, streams, groundwater, deserts, shorelines and deep sea sediments. One day field trip required.

HISTORICAL GEOLOGY

GEOL 103 Sp 5 Credits
30 hours of lecture 40 hours of lab

Physical, chemical, and biologic evolution of the earth as determined from the rock record. Interpretation of ancient environments through stratigraphy and biostratigraphy. Plate tectonics, earth history, and fossil identification. Field trips required. Prerequisite: Five credits in GEOL or consent of Instructional Unit.

NORTHWEST GEOLOGY

GEOL 109 F, W, Sp 5 Credits
50 hours of lecture

Geologic evolution of the Pacific Northwest emphasizing the development of the Cascades, Columbia River Plateau, Coast Ranges, Puget-Willamette Lowlands, San Juan Islands, High Lava Plains and the Okanogan Highlands. Field trips required. This class is a non-lab science.

COOPERATIVE WORK EXPERIENCE

GEOL 199 F, W, Sp 1-3 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

FIELD STUDIES IN GEOLOGY

GEOL 208 Sp 1-6 Credits
20 hours of lecture 80 hours of lab

Field trip program to study the geologic evolution of an area. Emphasis on interpretation of rocks and their structure. Duration, scope and field trip localities will vary. Food and personal gear provided by student. Maxi-vans provided for travel. Day hikes may be required. Prerequisite: Minimum of 10 credits in geology or consent of Instructional Unit.

SPECIAL PROJECTS

GEOL 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

GERMAN

FIRST-YEAR GERMAN

GERM 101 F, W, Sp 5 Credits
50 hours of lecture

Oral and written communication in German. Use of basic vocabulary and structures to acquire information and to express personal interests, needs and opinions on familiar topics. Contemporary German culture.

FIRST-YEAR GERMAN

GERM 102 F, W, Sp 5 Credits
50 hours of lecture

Continuation of GERM 101 with emphasis on developing the students' ability to express themselves freely on familiar topics.

FIRST-YEAR GERMAN

GERM 103 F, W, Sp 5 Credits
50 hours of lecture

Continuation of GERM 102 with emphasis on developing students' ability to express themselves freely on familiar topics.

SECOND-YEAR GERMAN

GERM 201 F, W, Sp 5 Credits
50 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review.

SECOND-YEAR GERMAN

GERM 202 F, W, Sp 5 Credits
50 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review. Prerequisite: GERM 201 or equivalent.

SECOND-YEAR GERMAN

GERM 203 F, W, Sp 5 Credits
50 hours of lecture

Thematic approach to contemporary German culture and literature. Discussions and papers in German. Grammar review. Prerequisite: GERM 202 or equivalent.

SELECTED TOPICS

GERM 280 F, W, Sp 1-5 Credits
50 hours of lecture

Course focuses on selected topics in German. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

GERM 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

GRAPHIC COMMUNICATIONS/PRINTING

INTRO TO ELECTRONIC PUBLISHING AND NEW MEDIA

GRCP 101 F, W, Sp 5 Credits
50 hours of lecture

Introductory survey of the broad area of electronic publishing and new media. Includes an emphasis on the social, economic, and aesthetic implications of the new technologies and their impact on one's professional and interpersonal environments. Course includes an overview of basic skills in interacting with information technology and creating content with new media technologies, but no previous computer experience is required.

POWERPOINT PRESENTATION GRAPHICS

GRCP 105 F, W, Sp 3 Credits
30 hours of lecture

Creation of electronic business presentations using text, graphics, charts, clip art and scanned objects incorporating ethics in infographics. Practice developing charts and embedding or linking media for print, sales presentations, and interoffice electronic communications. Four hours of laboratory per week required in addition to class time.

ELECTRONIC PUBLISHING: QUARK, PAGEMAKER

GRCP 115 4 Credits
20 hours of lecture 40 hours of lab

Introduction to a variety of page layout programs, document design, typesetting, and proofreading. Overview of printing history and technologies. Introduction to scanning, prepress and printing concepts, color theory, file formats, font management and digital color output. Practical experience preparing documents for both print and electronic distribution. Researching key topics, technologies and industry trends affecting graphic communications.

PRINT PRODUCTION AND TECHNOLOGIES

GRCP 118 4 Credits
20 hours of lecture 40 hours of lab

Survey of printing technologies, including offset lithography and high-volume digital printing, with hands-on production experience on duplicators, offset presses, or digital printers. Course focuses on learning how the specific reproduction process and job specifications determine prepress file preparation, and limitations in design, color, and quality. Students will learn safety practices, engage in mechanical troubleshooting, and produce 1,2, and 4 color printing projects.

HEALTH

MULTIMEDIA AUTHORING: DIRECTOR, PREMIERE

GRCP 231 4 Credits
20 hours of lecture 40 hours of lab

Introduction to the latest multimedia authoring software for developing interactive media presentations. Develop and integrate still imagery, motion graphics, text, video and sound content, publishing presentations into various formats for the web and CD/DVD. Topics include multimedia integration, interface design, interactivity, visual design, basic sound and video editing, format conversion, troubleshooting, testing, and technology trends. Prerequisite: GRCP 120.

3D GRAPHICS AND ANIMATION: HASH ANIMATION MASTER

GRCP 233 W 4 Credits
20 hours of lecture 40 hours of lab

Introduction to 3D graphics and animation using current software tools. Topics include visualizing in 3D, capabilities of 3D animation applications, creating stand-alone animation and incorporating 3D imaging seamlessly into other media. Prerequisite: GRCP 213 or consent of Instructional Unit.

CAPSTONE PRACTICUM

GRCP 240 F, W, Sp 1-3 Credits

An opportunity to extend your knowledge through the study of selected topics in your major area of study and to produce a comprehensive portfolio project. Projects must be pre-approved with the instructor. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

GRCP 280 1-5 Credits

Selected topics in Graphics Communication. Topics vary and course theme and content change to reflect new topics and issues within the industry. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules. Example topics include: 3D Animation, Emerging Technologies, Graphic Integration, or Information Ethics and Media Law. Prerequisite: Consent of Instructional Unit.

SPECIAL PROJECTS

GRCP 290 1-3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Independent research and training on emerging technologies can be used to develop portfolio projects, instructional tutorials, client or on-campus service projects. Prerequisite: Consent of Instructional Unit.

FOOD AND YOUR HEALTH

HLTH 100 F, W, Sp 2 Credits
20 hours of lecture

Explores the relationship between personal nutrition, high-level wellness and disease prevention. Promotes nutritional awareness, consumer concerns and emphasizes individual nutritional needs.

HEALTH FOR ADULT LIVING

HLTH 101 Su, F, W, Sp 3 Credits
30 hours of lecture

Emphasizes the dynamics involved in pursuing high level wellness. Addresses human health issues, health related behavior change, assessing personal disease risk and healthy lifestyle promotion.

ENVIRONMENTAL HEALTH

HLTH 103 F, W, Sp 2 Credits
20 hours of lecture

Explores environmental threats to human health. Topics include hazards related to poverty: safe drinking water, sanitation, food safety, inadequate solid waste disposal, and occupational injuries. Problems of developed countries related to unsustainable consumption will also be addressed: pollution (air, water, soil), solid and hazardous wastes, emerging infectious diseases, deforestation, land degradation and climate.

ADULT CPR AND FIRST AID

HLTH 120 F, W, Sp 1 Credit
10 hours of lecture

Introduction to adult CPR and general first aid skills that will prepare the student to recognize emergencies, make first aid decisions, and provide care. Upon successful completion of the course, students will receive Adult CPR and Standard First Aid certification.

ADULT, CHILD, AND INFANT CPR

HLTH 121 F, W, Sp 1 Credit
10 hours of lecture

Introduction to adult, child and infant CPR skills that will prepare the student to recognize emergencies, make appropriate decisions, and provide emergency care. Upon successful completion of the course, students will receive Adult, Child and Infant CPR certification.

CO-OP WORK EXPERIENCE

HLTH 199 1-3 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

HEALTH OCCUPATIONS

HUMAN SEXUALITY

HLTH 205 3 Credits
30 hours of lecture

Investigation of sexuality that incorporates the study of anatomy and physiology with psychosocial factors and the impact of cultural conditioning. This course addresses controversial social issues such as sexual victimization, sex education, reproductive choices, pornography and atypical sexual behavior.

WOMEN'S HEALTH

HLTH 207 F, W, Sp 2 Credits
20 hours of lecture

Examines the specific health concerns of women. Emphasis is placed on understanding the interplay between physical and emotional health as well as hormonal cycles, reproduction, nutrition, infectious disease, cancer and cardiovascular disease.

MULTICULTURAL HEALTH

HLTH 210 W 2 Credits
20 hours of lecture

Emphasis on multicultural diversity in health beliefs and practice. Class examines and contrasts alternative healing modalities with the western medical model. Cultural traditions of a wide variety of ethnic and racial groups are explored.

FIRST AID

HLTH 220 Sp 3 Credits
30 hours of lecture

In-depth study and practice of first aid skills, including adult, child and infant CPR. Course uses lecture, video, reading, group activities, skill practice and scenarios to train laypersons to make appropriate decisions and provide emergency care. Students will make a first aid kit and develop an Emergency Action Plan for the home or work. Upon successful completion of the course, students will receive American Red Cross Responding to Emergencies CPR and Responding to Emergencies First Aid certification.

SELECTED TOPICS

HLTH 280 Su, F, W, Sp 1-3 Credits
30 hours of lecture

Course focuses on selected topics in health. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

HLTH 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

MATH FOR MEDICATION ADMINISTRATION

HEOC 011 F, W, Sp 1 Credit
10 hours of lecture

Mathematical concepts related to the metric system and calculating dosages for oral and injectable medications, and converting Fahrenheit to Celsius. Designed to prepare an individual for the safe preparation and administration of medications in a physician's office, clinic or emergi-center. Prerequisite: Qualifying score on the college numerical skills placement for MATH 030 or higher or consent of Instructional Unit.

MATH REVIEW FOR DENTAL HYGIENE

HEOC 012 Sp 1 Credit
10 hours of lecture

Math refresher for Dental Hygiene students. Concurrent enrollment in DH 163 required.

BASIC CHEMICAL CONCEPTS

HEOC 030 F 2 Credits
20 hours of lecture

Basic structure of matter and its interaction at the atomic level. Chemical vocabulary, natural laws, physical properties, and the symbolism used in chemistry will be developed.

HEALTH CAREERS EXPLORATION

HEOC 090 F, Sp 2 Credits
20 hours of lecture

For persons interested in exploring careers in health occupations. includes an overview of job opportunities in a variety of medical fields; professional interviews; guest speakers; individualized interest testing and information related to health career programs available at Clark College and the greater metropolitan area.

BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY

HEOC 100 Su, F, W, Sp 3 Credits
30 hours of lecture 20 hours of lab

Introduction to basic anatomical and physiological concepts as the apply to the following health occupations: EMT, Pharmacy Tech, Medical Assisting, and Phlebotomy. Basic overview of all body systems including the respiratory, muscular, urinary, reproductive, digestive, cardiovascular, lymphatic, immune, nervous, skeletal, integumentary and the senses.

BASIC CONCEPTS OF ANATOMY AND PHYSIOLOGY LAB

HEOC 101 Su, F, W, Sp 1 Credit
20 hours of lab

Laboratory companion to HEOC 100. Activities which apply concepts taught in the lecture section to clinical practice. Designed especially for students enrolled in the Medical Assisting program. Prerequisite: Completion of or concurrent enrollment in HEOC 100.

PHLEBOTOMY EDUCATION

HEOC 115 Su, W 3 Credits
 20 hours of lecture 20 hours of lab

Prepares student to perform skin and venipunctures, to obtain suitable laboratory specimens and to function as a member of the medical laboratory team. Includes clinical practice. Prerequisite: HEOC 125 and written consent of Health Occupations Advisor.

AIDS EDUCATION

HEOC 120 Su, F, W, Sp 1 Credit
 10 hours of lecture

A comprehensive look at AIDS, etiology, epidemiology, clinical manifestations, treatment, transmission, testing, legal, ethical and psychological issues. Fulfills Washington State Department of Licensing requirement for license renewal for persons governed by Chapter 18.130.RCW.

MEDICAL VOCABULARY

HEOC 125 Su, F, W, Sp 3 Credits
 30 hours of lecture

Introduction to medical terminology and abbreviations, medical roots, prefixes and suffixes with emphasis on analysis and word building skills. Human anatomy and physiology will be related to their respective terms, combining forms, pathological conditions, clinical procedures and laboratory tests. Emphasis will be placed on spelling, pronunciation and abbreviations.

PHARMACOLOGY FOR HEALTH ASSISTANTS

HEOC 130 W, Sp 3 Credits
 30 hours of lecture

Introduction to the basics of medication administration including trade and generic names of prescription and over-the-counter medications commonly prescribed, medication classifications, routes of administration, dosages, effects and implications and appropriate methods of documentation. Prerequisite: BIOL 117 or 160, HEOC 125 or BTEC 217 or consent of Health Occupations or Business Administration Advisor.

LABORATORY PROCEDURES FOR THE MEDICAL OFFICE

HEOC 160 Sp 3 Credits
 20 hours of lecture 20 hours of lab

Specimen collection and processing. Basic laboratory tests: blood count; microscopic urine tests; microbiology specimen handling, including gram smears and basic culture techniques; blood typing and prepared test kit use. Equipment use and maintenance. Re-agent storage and handling. Lab safety emphasized. Prerequisite: A grade of "C" or better in BTEC 163 or consent of the Health Occupation Advisor.

COOPERATIVE WORK EXPERIENCE

HEOC 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 196, 197, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

HEOC 280 Su, F, W, Sp 1-5 Credits
 50 hours of lecture

Selected topics in Health Occupations. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

HEOC 290 Su, F, W, Sp 1-15 Credits

Learning contract with the student to meet specialized needs of the individual. Credit based upon the type of learning activities planned. Credit not applicable toward a major at Clark College. Prerequisite: Consent of the Science and Health Sciences Dean.

HEALTH/PHYSICAL EDUCATION

FITNESS-WELLNESS

HPE 258 Su, F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

A foundation course that promotes a better life experience through knowledge of wellness and implementation of positive fitness practices. Emphasis is placed on overall wellness, behavior modification, fitness components, disease risk factors, nutrition, weight management, and stress management. Includes lecture and lab components.

MIND BODY HEALTH

HPE 266 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

An investigation of the integral relationship between mind and body and how that relationship manifests itself in health, illness, and promotion of healing. Philosophical and scientific foundations of mind/body health will be explored. Techniques such as self-awareness, relaxation, meditation, exercise, diet, biofeedback and visual imagery will be explored in lab.

SELECTED TOPICS

HPE 280 Su, F, W, Sp 1-5 Credits
50 hours of lecture

Varying topics in Health Physical Education and sports, as listed in the quarterly class schedule. May be repeated for credit.

HISTORY

SURVEY OF WORLD CIVILIZATION

HIST 101 F 5 Credits
50 hours of lecture

The beginnings of civilization, c. 3500 B.C. to the High Middle Ages, c. 950 A.D. Areas to be covered include the ancient Near East, Egypt, India, China, Greece, Rome, and early medieval Europe.

SURVEY OF WORLD CIVILIZATION

HIST 102 W 5 Credits
50 hours of lecture

The High Middle Ages through the Late Middle Ages, the Renaissance and Reformation eras, the emergence of early modern society, witchcraft, the Enlightenment, the formation of nation-states and continued historical development in Europe, China, India, Africa, the Near East, plus Central and South America.

SURVEY OF WORLD CIVILIZATION

HIST 103 Sp 5 Credits
50 hours of lecture

The French Revolution through modern times. Incorporated into this framework are the political, military, economic, social, cultural and religious manifestations throughout the various regions of the world.

UNITED STATES HISTORY

HIST 131 Su, F 5 Credits
50 hours of lecture

Pre-Columbian era, colonial settlements and foundations of American institutions, seeds of revolution, Confederation and Constitution, federalism and states' rights, Jacksonian era.

UNITED STATES HISTORY

HIST 132 F, W 5 Credits
50 hours of lecture

Antebellum reform, Manifest Destiny, roots of Southern secession, Civil War and Reconstruction, rise of big business and organized labor, immigration and assimilation, American Imperialism and Progressive reform movement.

UNITED STATES HISTORY

HIST 133 W, Sp 5 Credits
50 hours of lecture

World War I, the Twenties, the Great Depression and the New Deal, World War II, the Cold War consensus, Vietnam and the Watergate era, and issues connected to the recent past.

EAST ASIAN HISTORY

HIST 221 F, Sp 5 Credits
50 hours of lecture

Survey of Far Eastern history from 1800 to the present. Primary emphasis will be placed on Far East - United States diplomacy and the emergence of the Far East in the modern world.

PACIFIC NORTHWEST HISTORY

HIST 235 Su, Sp 5 Credits
50 hours of lecture

Survey of the political, cultural, economic and social development of the Pacific Northwest with special emphasis on Washington State history.

NATIVE AMERICAN HISTORY

HIST 245 Sp 5 Credits
50 hours of lecture

A survey of Native American history from the pre-Columbian era to the Twentieth century. Topics include Indian cultures, treaty making and breaking, Indian patriots, and law and Indian rights.

WOMEN IN HISTORY-PREHISTORY THROUGH FALL OF ROME

HIST 251 F 3 Credits
30 hours of lecture

A survey of the role of women within the family, the economy and the culture from prehistory through the Middle Ages. Included within these parameters are the origins and development of patriarchy, misogyny and the view of female inferiority, women's contributions to Eastern, Middle Eastern, and Judeo/Christian religious experiences, and how women's lifecycles affected their status within society.

WOMEN IN HIST-MIDDLE AGES THROUGH PRE-INDUST AGE

HIST 252 W 3 Credits
30 hours of lecture

An overview of the roles women experienced within the family, the economy, religion and culture from the Middle Ages, circa 500 A.D., through the Pre-Industrial Age. Women in the Far East, Africa, Latin and South America, the Middle East and Europe will be surveyed to compare and contrast their life styles.

WOMEN IN HISTORY-INDUSTRIAL AGE TO MODERN TIMES

HIST 253 Sp 3 Credits
30 hours of lecture

The role and influence of women within society from the Industrial Age to modern times. Some of the areas to be explored: women's contributions and status within the economy, the arts and literature, the various religions, and the political structures. Within these centuries occurred such events and movements where women were either influenced by or influential on the Scientific Revolution, the Enlightenment, various revolutions in the world, beginning of Feminism, and the long debate and process of women's rights in voting, property ownership and areas of marriage and divorce.

SURVEY OF WOMEN IN U.S. HISTORY

HIST 265 F, Sp 5 Credits
50 hours of lecture

The role of women in America from the Native American women up to today. Included within these parameters will be women's contributions and status within the family, the economy, the religious communities, the legal and political systems, and the culture.

AFRICAN-AMERICAN HISTORY

HIST 275 F 5 Credits
50 hours of lecture

Survey of the history of the African-American experience from 1619 to the present.

SELECTED TOPICS

HIST 280 F, W, Sp 1-5 Credits
50 hours of lecture

Selected topics in History as listed in the quarterly class schedule. May be repeated for credit.

HISTORY OF LATIN AMERICA

HIST 285 W 5 Credits
50 hours of lecture

Survey of Latin American history, examining social, economic, political, cultural and intellectual trends and developments from ancient civilizations to the present Latin America in transition.

SPECIAL PROJECTS

HIST 290 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

HUMAN DEVELOPMENT

MATHEMATICS AND TEST ANXIETY

HDEV 050 F, W, Sp 1 Credit
10 hours of lecture

Reducing math anxiety, writing blocks, test-taking fears and other emotional reactions or attitudes that are barriers to effective learning.

PLANNING FOR CAREER CHANGE

HDEV 080 1-12 Credits
97 hours of lecture 25 hours of lab

Topics and issues selected and arranged to assist individuals through career change and other life transitions.

EFFECTIVE STUDY

HDEV 098 Su, F, W, Sp 2 Credits
20 hours of lecture

Learn effective study skills including goal setting, resource management, listening, note-taking, reading and test-taking skills. Appropriate for any student, particularly those working to improve basic skills and abilities necessary to move ahead to college level courses.

CAREER EXPLORATION

HDEV 100 Su, F, W, Sp 3 Credits
30 hours of lecture

Starting point for persons considering re-entry to education or the labor market, for career changes. Also for all students wanting to know more about themselves in terms of their values, interests, skills and abilities and how these relate to the world of work. Interest testing, analysis of past experiences and accomplishments to define skills. Credit not allowed for both HDEV 100 and 101.

CAREER EXPLORATION

HDEV 101 Su, F, W, Sp 2 Credits
20 hours of lecture

Starting point for persons considering re-entry to education or the labor market, for career changes. Also for all students wanting to know more about themselves in terms of their values, interests, skills and abilities and how these relate to the world of work. Interest testing and analysis of past experiences and accomplishments to define skills. Similar to HDEV 100 with fewer class hours. Credit not allowed for both HDEV 100 and 101.

NEW STUDENT SEMINAR

HDEV 102 F 1 Credit
10 hours of lecture

Designed for new students who want to make a smooth transition into college. Seminars will focus on community building, selected study tools and techniques, introduction to the Clark campus, student services, and library.

SELF-ESTEEM

HDEV 105 F, W, Sp 2 Credits
20 hours of lecture

Guided experience in self-motivation, values clarification, and empathetic regard for others. Structured small groups.

COLLEGE SUCCESS

HDEV 116 Su, F, W, Sp 2 Credits
20 hours of lecture

Orientation to college for persons returning to school. Includes information about classes, programs, academic procedures, library use and student services. Review study skills and learn time and stress management, goal setting, and coping skills for test anxiety. Credit not allowed for both HDEV 116 and 117.

COLLEGE SUCCESS

HDEV 117 Su, F, W, Sp 3 Credits
30 hours of lecture

Orientation to college for persons returning to school. Includes information about classes, programs, academic procedures, library use and student services. Review study skills and learn time and stress management, goal setting, and coping skills for test anxiety. Credit not allowed for both HDEV 116 and HDEV 117.

RELATIONSHIPS

HDEV 123 F, Sp 2 Credits
20 hours of lecture

Exploring male/female relationships. Cultural myths and stereotypes, relationship styles, managing conflict, dealing with sexual concerns, exploring intimacy and commitment, and improving communication between the sexes.

DECISION MAKING

HDEV 152 W, Sp 1 Credit
10 hours of lecture

Methods of making decisions surveyed and explored. Process awareness and learning skills to expand decision-making possibilities. Creating a personal style will be encouraged.

ASSERTIVENESS

HDEV 155 Su, F, W, Sp 3 Credits
30 hours of lecture

Teaches skills needed to achieve personal goals related to assertive behavior. Focuses on reducing emotional blocks and changing thoughts, feelings, and behavior to enable one to act in their own best interest and to express themselves in challenging situations without excessive anxiety or anger. Role play is used to demonstrate and practice skills. Recommended for both those who find it difficult to speak up and those who appear abrasive.

STRESS MANAGEMENT

HDEV 186 Su, F, W, Sp 1 Credit
10 hours of lecture

Stress is an inevitable part of life affecting health, productivity, and relationships. Too little or too much stress can cause problems. Discover your unique reactions to stress and new options for handling stressful situations.

CAREER-RELATED WORKSHOP

HDEV 190 F, W, Sp 1-3 Credits
30 hours of lecture

Independent study in career exploration. Includes testing and course-work in self-assessment, and career research while consulting with a career counselor. One to three credits can be earned based upon the amount of course work completed. Students must have instructor permission to register after the fourth week of class.

WORKPLACE SUCCESS

HDEV 195 Su, F, W, Sp 1 Credit
10 hours of lecture

Learn how to analyze your current work experiences to increase your success and potential for advancement. Gain knowledge specific to your work demands, develop transferable skills in human relations, information, and resource management. Satisfies the concurrent enrollment requirements for Co-op Work Experience.

PORTFOLIO DEVELOPMENT

HDEV 198 Su, F, W, Sp 1 Credit
10 hours of lecture

A career/employment portfolio will be developed, including a career goals statement, qualifications brief, resume, work samples, recommendations and references. Learn to effectively use the portfolio to achieve employment goals. Satisfies the concurrent enrollment requirement for co-op work experience.

COOPERATIVE WORK EXPERIENCE

HDEV 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Concurrent enrollment in, HDEV 195 required. Prerequisite: Consent of Instructional Unit.

PROFESSIONAL DEVELOPMENT

HDEV 200 F, W, Sp 2 Credits
20 hours of lecture

Job search strategies and techniques using the latest techniques and technologies, will be discussed and practiced, including preparing an electronic resume for the Internet, e-mail and computer scanner. Various methods to conduct your personalized labor market research, prepare effective cover letters, and how to secure informational or employment interviews will be learned. Guests speakers from local business and industry to speak about etiquette and ethics in the work place. May satisfy concurrent enrollment for Co-op Work Experience.

SELECTED TOPICS

HDEV 280 1-3 Credits
30 hours of lecture

Variety of topics in human development as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

HDEV 290 1-5 Credits

Opportunity to plan, organize and complete special projects approved by department 15 credits maximum. Prerequisite: Consent of Instructional Unit.

HUMANITIES

THE ART OF BEING HUMAN

HUM 101 F, W, Sp 5 Credits
50 hours of lecture

The whole of living, about being as fully human as each individual can possibly be. Art, music, and philosophy, as they pertain to each of us - here and now.

MUSIC, ART, THEATER AND YOU

HUM 102 1-3 Credits
30 hours of lecture

Here-and-now humanities class helping students acquire a first-hand experience in the variety of activities in art, music, and theater available in the area. Meeting with artists, visiting studios and galleries, and attending performances.

POPULAR CULTURE

HUM 103 3 Credits
30 hours of lecture

Study of the familiar mass-produced forms of art and entertainment.

CONCEPTS OF NATURE

HUM 112 F, Sp 3 Credits
30 hours of lecture

Interdisciplinary study of current and historical ways of "constructing" nature: assigning values to it and deriving ethics and aesthetics from it. Focuses on America, with background in European and Judeo-Christian models of nature. Examines how those contrast with Native American and traditional models. Looks at regional issues as examples.

INTRODUCTION TO CINEMA

HUM 152 3 Credits
30 hours of lecture

Introductory course on the study of Film history, production techniques, aesthetics and social impact of the American film industry from early 1900's to present.

BIOETHICS

HUM 180 F, W, Sp 3 Credits
30 hours of lecture

A study of biological science and ethics. Ethical principles and theories are used in solving bioethical dilemmas. Concepts studies include genetic engineering, inherited disorders, cloning, physician assisted suicide, allocation of health resources, organ donation, and environmental ethics. Credit not allowed for both BIOL 180 and HUM 180.

SELECTED TOPICS

HUM 280 F, W, Sp 1-5 Credits
50 hours of lecture

Selected topics in Humanities. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit. Specific topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

HUM 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

INDUSTRIAL FIRST AID

INDUSTRIAL FIRST AID

IFA 031 Su, F, W, Sp 1 Credit
10 hours of lecture

First aid including layperson CPR. This class meets the standards set by OSHA for persons governed by the Department of Labor and Industry and fulfills requirements for vocational certification. First aid certification is awarded for two years.

FIRST AID FOR HEALTH OCCUPATIONS

IFA 032 Su, F, W, Sp 1 Credit
10 hours of lecture

First aid and cardiopulmonary resuscitation, for health care providers as required by the Washington Occupation and Health Act. Designed specifically for health care providers.

FIRST AID RENEWAL

IFA 033 Su, F, W, Sp 1 Credit
10 hours of lecture

This course meets the standards set by OSHA for persons governed by the Department of Labor and Industry and fulfills requirements for vocational certification. Two equal sessions; Session A is concurrent with the first aid session of IFA 031, Session B is a separate update and review of basic first aid principles. Renewal certificate is awarded. Prerequisite: IFA 031 or active first aid certificate.

INDUSTRIAL MATHEMATICS

INDUSTRIAL MATHEMATICS

MATH 085 F, W, Sp 5 Credits
50 hours of lecture

Mathematical calculations used in industry. Determining compression ratio, gear ratio, taper calculations, thread dimensions, weights and measures, and metric conversions. Credit allowed for only one of MATH 065 and 085. Prerequisite: A grade of "P" in DVED mathematics or recommending score on the college numerical skills placement test for MATH 085 or consent of Instructional Unit.

TECHNICAL MATHEMATICS I

MATH 098 F 3 Credits
30 hours of lecture

Prerequisite: MATH 090 or recommending score on the college numerical skills placement test for MATH 085, or consent of Instructional Unit.

TECHNICAL MATHEMATICS II

MATH 099 W 3 Credits
30 hours of lecture

Trigonometry, Logarithms, and complex numbers. Hand calculator with trigonometric capability required. Designed for majors in Electronics, Manufacturing Technologies and Data Networks and Telecommunication Technologies. NOTE: MATH 099 is not an acceptable prerequisite for any mathematics and manufacturing systems maintenance Tech class at Clark College. Prerequisite: MATH 098 or recommending score on College numerical skills placement test or consent of Instructional Unit.

INDUSTRIAL TECHNOLOGY-ELECTRICITY

BASIC NATIONAL ELECTRICAL CODE

ITEL 071 F 3 Credits
30 hours of lecture

Fundamentals of the electric code. Use of the code book and its application to dwellings, industry and commerce.

BASIC NATIONAL ELECTRICAL CODE

ITEL 072 W 3 Credits
30 hours of lecture

Continuation of ITEL 071. Use of the code book and its application to dwellings, industry, and commerce. Emphasis on NEC Articles 250 and 220.

BASIC NATIONAL ELECTRICAL CODE

ITEL 073 Sp 3 Credits
30 hours of lecture

Continuation of ITEL 072. Use of the code book and its application to dwellings, industry, and commerce. Emphasis on NEC Articles 220 and 430. Prerequisite: ITEL 072 or consent of Instructional Unit.

BASIC DC ELECTRICITY

ITEL 131 F 6 Credits
40 hours of lecture 40 hours of lab

Fundamentals of DC circuits, DC instruments, batteries and application mathematics needed to complete assignments. Prerequisite: MATH 090 or consent of Instructional Unit.

BASIC AC ELECTRICITY

ITEL 132 W 6 Credits
40 hours of lecture 40 hours of lab

Fundamentals of AC circuits, AC instruments, batteries and application mathematics needed to complete assignments. Prerequisite: ITEL 131.

DIGITAL ELECTRONICS

ITEL 133 F 5 Credits
40 hours of lecture 20 hours of lab

Applications of binary numbers and Boolean Algebra as related to combinational and sequential logic circuits employing logic gates, flip flops, counters, shift registers, encoders and decoders, multiplexers, displays, A/D and D/A converters. Prerequisite: ITEL 132 or consent of Instructional Unit.

ELECTRIC MOTORS AND CONTROLS

ITEL 141 W 5 Credits
40 hours of lecture 20 hours of lab

Fundamentals of modern industrial electric motor control devices including magnetic starters, overload protection devices, solid state devices, applications and troubleshooting. Prerequisite: ITEL 132 or consent of Instructional Unit.

BASIC SEMICONDUCTOR DEVICES

ITEL 142 Sp 5 Credits
40 hours of lecture 20 hours of lab

Fundamentals of solid state electronics including semiconductor devices, applications and troubleshooting. Prerequisite: ITEL 132 or consent of Instructional Unit.

INDUSTRIAL ELECTRONICS

ITEL 143 Sp 5 Credits
40 hours of lecture 20 hours of lab

Characteristics and applications of solid state devices used in industrial control circuits. Prerequisite: ITEL 142 or consent of Instructional Unit.

HIGH VOLTAGE SYSTEMS

ITEL 171 Sp 3 Credits
30 hours of lecture

Three phases and single phase distribution systems will be presented with special consideration for high voltage systems and sub-station application.

SPECIAL PROJECTS

ITEL 290 F, W, Sp 1-3 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

JAPANESE

FIRST-YEAR JAPANESE

JAPN 101 F 5 Credits
50 hours of lecture

Speaking, reading and writing Japanese with primary emphasis on oral communication. Introduction to Hiragana, Katakana and 50 Kanjis.

FIRST-YEAR JAPANESE

JAPN 102 W 5 Credits
50 hours of lecture

Continuation of JAPN 101. Introduction to 70 Kanjis.

FIRST-YEAR JAPANESE

JAPN 103 Sp 5 Credits
50 hours of lecture

Continuation of JAPN 102. Introduction to 50 Kanjis.

JOURNALISM

INTRODUCTION TO JOURNALISM

JOUR 101 F, W 3 Credits
30 hours of lecture

Introduction to the basic concepts and skills of journalism. Through lectures, discussions, in-class exercises and outside reporting assignments, students will focus on such concepts as the "marketplace of ideas," reporter objectivity, and basic legal and ethical resources. Instruction in interviewing and basic news story structure. Prerequisite: ENGL 101 eligibility required.

COLLEGE NEWSPAPER

JOUR 121 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Completion of JOUR 101 or concurrent enrollment in a Journalism class strongly recommended.

COLLEGE NEWSPAPER

JOUR 122 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 121.

COLLEGE NEWSPAPER

JOUR 123 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Concurrent enrollment in a JOUR class required. Prerequisite: JOUR 122. Completion of JOUR 101 or concurrent enrollment recommended.

COOPERATIVE WORK EXPERIENCE

JOUR 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in newspaper or other journalism position. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

ADVANCED NEWSWRITING

JOUR 201 Sp 3 Credits
30 hours of lecture

Continuation of JOUR 101. Focus on longer, more complex stories, including features and opinion writing. Students will compete a short research project. Prerequisite: JOUR 101.

COLLEGE NEWSPAPER

JOUR 221 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 123.

COLLEGE NEWSPAPER

JOUR 222 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 221.

COLLEGE NEWSPAPER

JOUR 223 F, W, Sp 1-5 Credits
50 hours of lecture

To provide a realistic journalistic workshop, giving students an opportunity to learn about news judgment, making story assignments, news writing, feature writing, headline writing, news and feature photography, editing, and layout and design. Students learn to meet deadlines and work professionally with each other and with other departments and individuals on campus. Prerequisite: JOUR 222.

NEWS EDITING

JOUR 272 Sp 3 Credits
30 hours of lecture

Basic editing skills. Emphasis on proofreading, clarity, trimming headlines. Basic modular layout, editor responsibilities and Associated Press Style. Prerequisite: ENGL 111 or JOUR 101.

SPECIAL PROJECTS

JOUR 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize, and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

MACHINING TECHNOLOGY

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 054 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, shop policies, measuring tools, hand tools, drills, and lathes.

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 055 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, shop policies, lathes, drills, and threads.

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 056 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, shop policies, lathes, mills, and milling cutters.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 094 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, mills, grinders, and carbide lathe tooling. Prerequisite: MACH 054, 055, and 056 or consent of Instructional Unit.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 095 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, mills, carbide mill tooling, mill attachments, and band saw. Prerequisite: MACH 094, or consent of Instructional Unit.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 096 F, W, Sp 4 Credits
20 hours of lecture 40 hours of lab

Safety, heat treat, steels, mills, and grinders. Prerequisite: MACH 095 or consent of Instructional Unit.

MECHANICAL BLUEPRINT READING

MACH 106 W 4 Credits
40 hours of lecture

Fundamentals of reading mechanical blueprints. Content includes detail and assembly drawings, dimensions and tolerances, title block, material lists, notes and revisions, matching specifications, and reading blueprints in specialized areas.

BASIC GENERAL MACHINING PROCESSES

MACH 111 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application in general shop safety, safe practices and dangers of a machine shop environment. Demonstrations of proper use of micrometers and measurement tools. Procedures for deburring parts. Types of drill bits and their uses. Drill bit sharpening. Use of bandsaws and bandsaw blade welders.

BASIC ENGINE LATHE PROCESSES I

MACH 112 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application of engine lathe nomenclature and safety. Calculate speeds and feeds for use with an engine lathe. Setup and operation of engine lathe for the basic operations of turning, facing and drilling. Prerequisite: MACH 111.

BASIC VERTICAL MILLING PROCESSES I

MACH 113 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application using nomenclature and safety for the vertical mill. Setup indicators and edge finders. Operations to include squaring of a work piece, drilling and reaming holes in various materials.

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 114 W 10 Credits
50 hours of lecture 100 hours of lab

Individual projects. Concurrent enrollment in MACH 113 required. Prerequisite: MACH 112 or consent of Instructional Unit.

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 115 Sp 5 Credits
50 hours of lecture

Safety, milling process, do-all saw, and surface grinder. Use of The Machinery's Handbook and trigonometry. Concurrent enrollment in MACH 116 required. Prerequisite: MACH 113 or consent of Instructional Unit.

BASIC MACHINING TECHNOLOGY PROCESSES

MACH 116 Sp 10 Credits
50 hours of lecture 100 hours of lab

Individual projects. Concurrent enrollment in MACH 115 required. Prerequisite: MACH 114 or consent of Instructional Unit.

BASIC SURFACE GRINDER PROCESSES I

MACH 121 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practice to safely use the surface grinders. Instruction of nomenclature for surface grinders. The use and care of handtools for inspection and setup of the surface grinder. Identify and safely use grinding wheels. Setup workpiece and grind material parallel. Prerequisite: MACH 111.

BASIC ENGINE LATHE PROCESSES II

MACH 122 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practice to use engine lathe for turning material both concentric and straight, creating square shoulders, and facing a part. Drilling with the tailstock. Cutting external UNF and UNC threads. The use and care of taps. Prerequisite: MACH 111, MACH 112.

BASIC VERTICAL MILLING PROCESSES II

MACH 123 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application using the vertical mill for drilling procedures, squaring of a workpiece, and reaming operations. Practice in machine setups to complete these operations. Prerequisite: MACH 111, MACH 113.

BASIC SURFACE GRINDER PROCESSES II

MACH 131 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application using the surface grinder to grind a workpiece flat and parallel, setup and operation to dress various shapes on grinding wheels. Prerequisite: MACH 111, MACH 121.

BASIC ENGINE LATHE PROCESSES III

MACH 132 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application using the engine lathe with four jaw chucks, cutting square and acme threads. Use of formulas and different methods for cutting tapers. Prerequisite: MACH 111, MACH 112, MACH 122.

BASIC VERTICAL MILLING PROCESSES III

MACH 133 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Instruction and practical application using the vertical milling machine with an indexing head. Application of form cutting tools, keyway cutters, and face milling. Prerequisite: MACH 111, MACH 113, MACH 123.

Machining Technology

RELATED MACHINING TECHNOLOGY

MACH 134 Su 4 Credits
20 hours of lecture 40 hours of lab
Safety, set-up, and operation of the lathe, drill, mill, bench work and related theory.

COOPERATIVE WORK EXPERIENCE

MACH 199 F, W, Sp 1-5 Credits
Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

ADVANCED SURFACE GRINDER PROCESSES III

MACH 211 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Instruction and practical application for the surface grinder using angle blocks and plates for grinding edges and vertical surfaces. Prerequisite: MACH 111, MACH 121, MACH 131.

ADVANCED ENGINE LATHE PROCESSES IV

MACH 212 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Instruction and practical application of advanced engine lathe processes. Cutting of long workpieces using steady rests and follow rests. Prerequisite: MACH 111, MACH 112, MACH 122, MACH 132.

ADVANCED CNC MILLING SETUP AND OPERATION

MACH 213 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Setup and operation of the Haas vertical mill. Creating and editing numerical control programs for Haas vertical mill. Prerequisite: MACH 111.

SURFACE GRINDER AND PROCESSES II

MACH 221 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Using the surface grinder to produce angles and shapes with sine vises, angle plates and fixtures. Prerequisite: MACH 111, 121, 131, and 211.

CNC LATHE SETUP AND OPERATION

MACH 222 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Use cam software (Mastercam) to produce CNC programs for Haas vertical mill using 2d and 3d geometry. Prerequisite: MACH 111.

CNC MILL MASTER CAM PROGRAMMING

MACH 223 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Instruction and practical application for the safe setup and operation of Okkuma CNC lathe. Produce and edit NC programs on the CNC lathe. Prerequisite: MACH 111 or consent of Instructional Unit.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 224 W 10 Credits
50 hours of lecture 100 hours of lab
Individual projects. Three to five industrial tours. CAM programming. Concurrent enrollment in MACH 223 required. Prerequisite: MACH 222 or consent of Instructional Unit.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 225 Sp 5 Credits
50 hours of lecture
Use of The Machinery's handbooks. Set-ups and application of profile, planer, electrical discharge and others, grinding machines in industry. Metric conversions and application for present and future machining. Concurrent enrollment in MACH 226 required. Prerequisite: MACH 223 or consent of Instructional Unit.

ADVANCED MACHINING TECHNOLOGY PROCESSES

MACH 226 Sp 10 Credits
50 hours of lecture 100 hours of lab
Individual projects. Three to five industrial tours. Concurrent enrollment in MACH 225 required. Prerequisite: MACH 224 or consent of Instructional Unit.

ADVANCED EDM PROCESSES

MACH 231 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Instruction and practical application for setup and operation of the electrical discharge machine using overburn charts. Using manufacturer's charts to determine electrode material. Prerequisite: MACH 111.

ADVANCED CNC LATHE PROGRAMMING

MACH 232 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab
Advanced CAM programming using Mastercam to produce CNC programs for Okkuma CNC lathe. Prerequisite: MACH 111, MACH 222.

MANAGEMENT

ADVANCED MILLING 3D PROGRAMMING AND MACHINING

MACH 233 Su, F, W, Sp 5 Credits
20 hours of lecture 60 hours of lab

Advanced CAM programming for the vertical mill using Mastercam to produce CNC programs by using solids and surfaces. Prerequisite: MACH 111, MACH 222.

BASIC NUMERIC CONTROL

MACH 251 F, W, Sp 3 Credits
30 hours of lecture

Writing and testing programs for the HAAS computer numerical control mill.

CAM PROGRAMMING

MACH 252 F, W, Sp 4 Credits
30 hours of lecture 20 hours of lab

Experience in writing programs using the MasterCam or GeoPath programming systems. Programs will be written for various Mills and Lathes.

SPECIAL PROJECTS

MACH 290 F, W, Sp 1-6 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

THE BUSINESS ENVIRONMENT

MGMT 100 F, Sp 5 Credits
50 hours of lecture

Overview of the business organization including management, operations, marketing, and finance. Learn essential business concepts for the employee and manager alike. Including the role of business in modern society, responding to the changing business environment, the unique challenges of small business managing human and physical resources, and competing in a global economy. Credit not allowed for both BUS 100 and MGMT 100.

PRINCIPLES OF MANAGEMENT

MGMT 101 F, W, Sp 3 Credits
30 hours of lecture

Study of the management concepts, styles, issues, concerns, regulations, and laws which affect all supervisory managers. Practical information useful to both new and experienced managers.

APPLIED MANAGEMENT SKILLS

MGMT 103 F 3 Credits
30 hours of lecture

Developing concepts and skills in employee motivation, communication, and supervisory leadership. Promoting effective relations and performance in the work group. Case discussions and role situations develop understanding of individual and group problems encountered by the supervisor.

MANAGERIAL PSYCHOLOGY

MGMT 104 W 3 Credits
30 hours of lecture

Study of personality, learning, and perception applied to supervision.

MOTIVATION AND PERFORMANCE

MGMT 106 3 Credits
30 hours of lecture

Review of the motivational factors of human relations and how individuals react with one another to enhance each other's motivational levels. How individual motivational levels enhance the success or failure of organizations.

SUPERVISORY COMMUNICATION I, WRITTEN

MGMT 107 W 3 Credits
30 hours of lecture

Review of writing mechanics covering grammar, punctuation, and sentence and paragraph structure. Students practice writing effective business letters, documentation, supervisory reports, office memoranda, and bulletins.

Management

SUPERVISORY COMMUNICATION II, ORAL

MGMT 108 Sp 3 Credits
30 hours of lecture

Communication factors including personality, non-verbal and therapeutic communications to increase employee effectiveness. Effective listening as well as speaking. Saying what we mean and understanding what is communicated as related to intent and effect. Conference leading practice for supervisors. Credit not allowed for both MGMT 108 and SPEE 212. Same as SPEE 212. Prerequisite: Supervisory management courses or management experience.

CREATIVE PROBLEM SOLVING

MGMT 110 W 3 Credits
30 hours of lecture

Review of the creative and analytical thinking necessary for effective problem-solving in the work place. Concepts include left/right brain thinking, stages in the creative process, habits that hinder thinking and producing ideas, the role of criticism, and effective communication of solutions.

CONFLICT MANAGEMENT

MGMT 112 F, Sp 2 Credits
20 hours of lecture

Study of the factors causing conflicts and ways to resolve them. Conflict with individuals and groups, conflict management styles, and win-win situations.

HUMANIZING THE WORKPLACE

MGMT 113 F, Sp 1 Credit
10 hours of lecture

Concentrates on the rediscovery of laughter and humor through situational humor to rebuild human connection, improve individual and corporate health, kindle creativity, and establish perspective in a work world dominated by strategies such as down-sizing, reengineering, and outsourcing.

SUPERVISOR AS A TRAINER COACH

MGMT 120 Sp 3 Credits
30 hours of lecture

The supervisor's role in the training and development of employees. Topics include identifying training needs, selecting the appropriate type of training, distinguishing between training and coaching situations, and coaching to help employees improve performance and develop professionally. In-class practice of practical training and coaching techniques.

LEADERSHIP PRINCIPLES

MGMT 122 F 3 Credits
30 hours of lecture

Leadership skills for improving effectiveness. Practical information for influencing organizational performance for the manager and non-managers alike. Topics include leadership/followership roles, leadership styles, the communication process, team building and group interactions, and organizational politics, power, and influence. Applications for leading in business, not-for-profit organizations, clubs, and social organizations.

TEAM BUILDING AND GROUP BEHAVIOR

MGMT 125 Sp 3 Credits
30 hours of lecture

Creating, developing, and nurturing teams in the workplace to achieve organizational objectives. Emphasis on the role of the supervisor, the roles of team members and group behavior.

PROJECT MANAGEMENT

MGMT 126 W, Sp 3 Credits
30 hours of lecture

This course focuses on how to manage projects successfully. It introduces students to current practices in project management and in creating a quality project plan. Case examples will provide the opportunity for first-hand practice of the individual steps of a project cycle using current tools in information technology, control, and production.

HUMAN RESOURCES MANAGEMENT

MGMT 128 F, W 3 Credits
30 hours of lecture

Developing an understanding of the functions and skills needed by supervisors concerning employment recruitment, selection and placement, staff planning and development, job descriptions and analysis, promotions, transfers, separations, wage and salary administration, and EEO requirements.

LEGAL ISSUES IN EMPLOYEE RELATIONS

MGMT 132 Sp 3 Credits
30 hours of lecture

Management considerations in employment law: hiring, discrimination, employment-at-will, drug testing, health insurance, unemployment, worker's compensation, wages and hours, civil rights including due process for public employees, and in labor relations: employee rights, collective bargaining, discipline and discharge, grievances and mediation.

MATHEMATICS

PRODUCTIVITY AND QUALITY IMPROVEMENT

MGMT 133 Sp 3 Credits
30 hours of lecture

Techniques for improving productivity and quality and reducing waste. Topics include measuring quality and productivity, process definition and control, problem-solving, continuous improvement, and personal productivity for the production and service environment.

COOPERATIVE WORK EXPERIENCE

MGMT 199 F, W, Sp 1-5 Credits

Up to 5 credits for supervised work training in an approved job. Completion of or concurrent enrollment in BTEC 147 or HDEV 195, 198, or 200 required. Prerequisite: Completion of one class with a "C" or better in Business, Economics, or Management. Written consent of Instructional Unit.

SELECTED TOPICS

MGMT 280 1-5 Credits
50 hours of lecture

Varying topics in supervisory management, as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

MGMT 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

PRE-ALGEBRA

MATH 030 Su, F, W, Sp 5 Credits
50 hours of lecture

An introduction to algebra, solving equations, the integers, fractions, decimals, ratios, proportions, percents and measurement. Prerequisite: A grade of "C" in DVED mathematics or recommending score on placement test.

FUNDAMENTALS OF BUSINESS MATHEMATICS

MATH 065 Su, F, W, Sp 5 Credits
50 hours of lecture

Application of mathematics to common business situations. Emphasis is on practical applications and problem-solving skills for the business professional as well as the consumer and investor. Prerequisite: A grade of "P" in DVED mathematics or recommending score on placement test.

INTRODUCTION TO THE GRAPHING CALCULATOR

MATH 080 F, W, Sp 1 Credit
10 hours of lecture

Basic calculator functions, using memory keys, graphing and solving equations and inequalities, manipulating the graph viewing window, using the various calculator menus, operations on matrices, using programs. Prerequisite: "C" or better in MATH 030 or recommending score on placement test.

INDUSTRIAL MATHEMATICS

MATH 085 F, Sp 5 Credits
50 hours of lecture

Mathematical calculations used in industry. Determining ratio and proportion, taper calculations, weights and measures, areas and volumes, circles, angles, triangles, percentages, and metric conversions. Prerequisite: A grade of "C" or better in DVED 023 or recommending score on placement test or consent of Instructional Unit.

ALGEBRA REVIEW WORKSHOP

MATH 087 Su 3 Credits
30 hours of lecture

Intense, two-week workshop reviews the fundamentals of elementary and intermediate algebra to refresh the skills essential for success in higher level math courses.

ALGEBRA I

MATH 089 Su, F, W, Sp 5 Credits
50 hours of lecture

Numeric and algebraic expressions, exponents, the coordinate plane, functions, linear equations and linear inequalities. Designed for the student who wishes to take algebra at a slower pace. Prerequisite: A grade of "C" or better in MATH 030 or recommending score on placement test.

Mathematics

ELEMENTARY ALGEBRA

MATH 090 Su, F, W, Sp 5 Credits
50 hours of lecture

Numeric and algebraic expressions, exponents, the coordinate plane, functions, polynomials, factoring, linear equations and inequalities, and lines. Prerequisite: A grade of "C" or better in MATH 030 or recommending score on placement test.

ALGEBRA II

MATH 091 Su, F, W, Sp 5 Credits
50 hours of lecture

Lines, systems of linear equations, polynomials, factoring and rational expressions. Designed for the student who wishes to take algebra at a slower pace. Prerequisite: A grade of "C" or better in MATH 089 or MATH 090.

ALGEBRA III

MATH 093 Su, F, W, Sp 5 Credits
50 hours of lecture

Radical expressions, exponents, quadratic equations, exponential functions and logarithmic functions. Designed for the student who wishes to take algebra at a slower pace. Prerequisite: A grade of "C" or better in MATH 091.

INTERMEDIATE ALGEBRA

MATH 095 Su, F, W, Sp 5 Credits
50 hours of lecture

Rational expressions, radical expressions, exponents, quadratic equations, systems of equations, and exponential and logarithmic functions. Prerequisite: A grade of "C" or better in MATH 090 or recommending score on placement test.

MAPLE SOFTWARE

MATH 096 F, W, Sp 1 Credit
10 hours of lecture

Interactive exploration of the features and applications of Maple, an algebraic and graphing software which will be used in learning several courses in the Mathematics Department, from college algebra through differential equations. Prerequisite: MATH 093 or 095 or recommending score on placement test.

TECHNICAL MATHEMATICS I

MATH 098 F 3 Credits
30 hours of lecture

Algebra review, engineering calculator, graphing, geometry, units, significant digits, and scientific notation. Designed for majors in Electronics, Manufacturing Technologies, and Data Networking and Telecommunications Technologies. Prerequisite: Grade of "C" or better in MATH 090, recommending score on placement test or consent of Instructional Unit.

TECHNICAL MATHEMATICS II

MATH 099 W 3 Credits
30 hours of lecture

Trigonometry, Logarithms, and complex numbers. Hand calculator with trigonometric capability required. Designed for majors in Electronics, Manufacturing Technologies and Data Networks and Telecommunication Technologies. NOTE: MATH 099 is not an acceptable prerequisite for any mathematics and manufacturing systems maintenance Tech class at Clark College. Prerequisite: MATH 098 or recommending score on College numerical skills placement test or consent of Instructional Unit.

COLLEGE TRIGONOMETRY

MATH 103 Su, F, W, Sp 5 Credits
50 hours of lecture

Trigonometric ratios, right angle trigonometry, law of sines, law of cosines, radian measure, trigonometric identities, trigonometric equations, graphs, complex numbers, and vectors. For those with no previous trigonometry or who need a thorough review of the subject. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test.

FINITE MATHEMATICS

MATH 105 Su, F, W, Sp 5 Credits
50 hours of lecture

Includes set theory, graphs, linear programming, simplex method, matrices and linear systems, probability, and combinatorics. For students of business, social science or life science. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test.

ELEMENTS OF CALCULUS

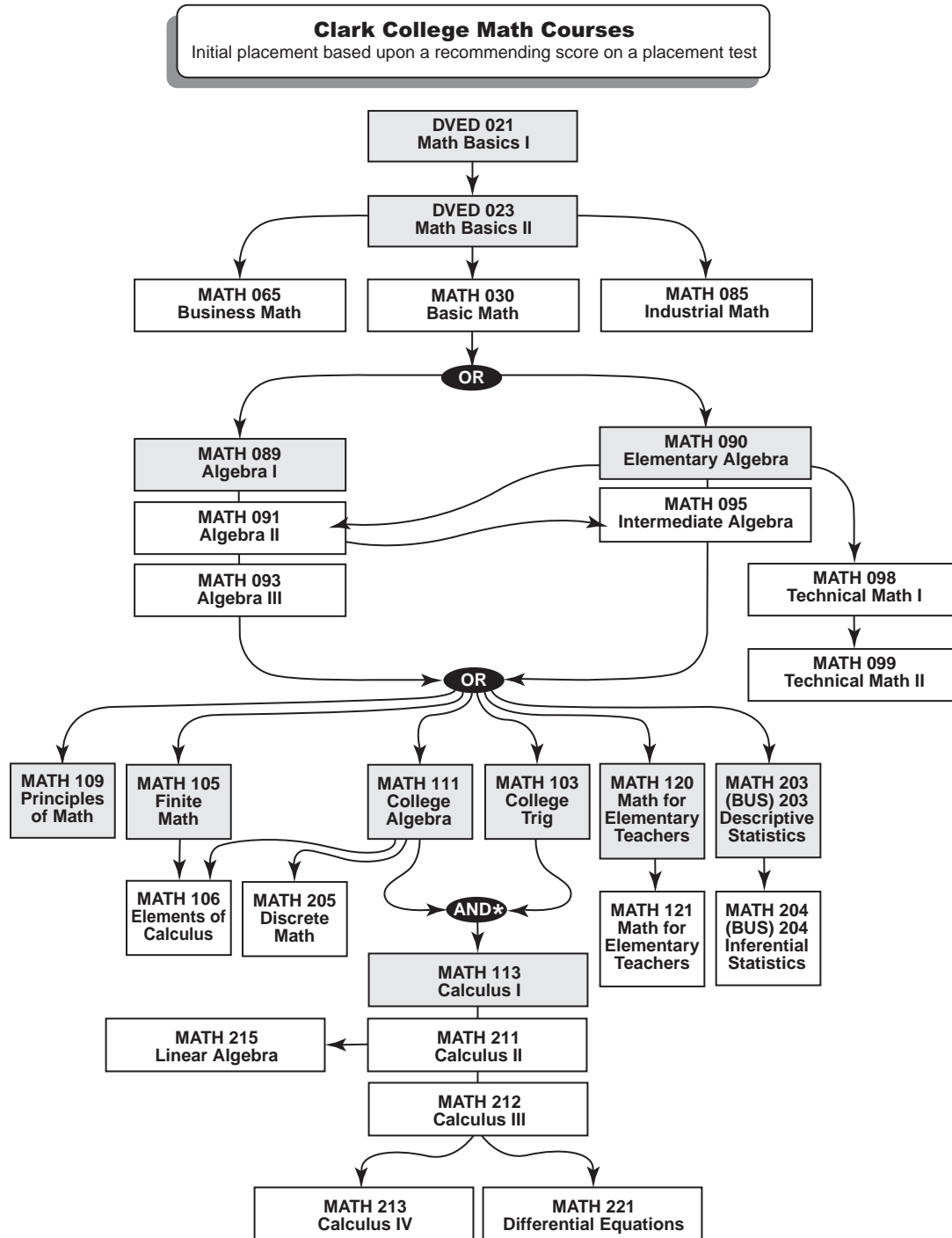
MATH 106 Su, F, W, Sp 5 Credits
50 hours of lecture

Introductory calculus with applications for business, life sciences, and social sciences. Differential, integral, and elementary multivariate calculus. Prerequisite: A grade of "C" or better in MATH 105 or 111 or recommending score on placement test.

PRINCIPLES OF MATHEMATICS

MATH 109 Su, F, W, Sp 5 Credits
50 hours of lecture

Philosophy of mathematics and concepts of numerical relationships. Mathematical systems, logic, set theory, inductive and deductive reasoning, scientific attitudes, elementary properties of mathematics. Geometry and history of mathematics will be covered as time allows. For students who do not plan to take more mathematics. One field trip may be required. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test.



Mathematics

COLLEGE ALGEBRA

MATH 111 Su, F, W, Sp 5 Credits
50 hours of lecture

The function approach including algebraic, logarithmic, and exponential functions. Inequalities, theory and systems of equations, matrices, conic sections, sequences and series. A challenging technical course primarily intended for those majoring in Mathematics, Physical Science or Engineering. It is a preparatory class for the four-term Calculus series. Prerequisite: A grade of "C" or better in MATH 093 or 095, or recommending score on placement test.

CALCULUS I

MATH 113 Su, F, W, Sp 5 Credits
50 hours of lecture

Plane analytic geometry, functions, limits, continuity, the derivative, curve sketching, applications of the derivative and the integral. Prerequisite: A grade of "C" or better in MATH 103 and 111, or recommending score on placement test.

MATHEMATICS FOR ELEMENTARY TEACHERS

MATH 120 W 5 Credits
50 hours of lecture

Sets, inductive and deductive logic, subsystems of the real number system, various numeration systems, and elementary number theory. For persons planning to become elementary teachers. NOTE: Students are strongly encouraged to arrange a concurrent internship in an elementary school classroom. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test.

MATHEMATICS FOR ELEMENTARY TEACHERS

MATH 121 Sp 5 Credits
50 hours of lecture

Continuation of MATH 120. The real number system and other mathematical systems, informal Euclidean geometry, measurement, metric units, area and volume, and coordinate geometry. Students are strongly encouraged to arrange a concurrent internship in an elementary school classroom. Prerequisite: A grade of "C" or better in MATH 120.

COOPERATIVE WORK EXPERIENCE

MATH 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

DESCRIPTIVE STATISTICS

MATH 203 Su, F, W, Sp 3 Credits
30 hours of lecture

Descriptive methods, probability, binomial and normal probability distributions, are included among other statistical topics with applications to fields of science, engineering, business, social science, and education. Credit allowed for only one of MATH 203 or BUS 203. Prerequisite: A grade of "C" or better in MATH 093, or 095, or recommending score on placement test.

INFERENTIAL STATISTICS

MATH 204 W, Sp 3 Credits
30 hours of lecture

Estimation of parameters, tests of hypotheses, regression analysis, nonparametric statistics and analysis of variance are included in this continuation of MATH 203. Applications in science, engineering, business, social science and education. Credit allowed for only one of MATH 204 or BUS 204. Prerequisite: A grade of "C" or better in MATH 203 or BUS 203.

DISCRETE MATHEMATICS

MATH 205 W 5 Credits
50 hours of lecture

Study of finite systems. Topics chosen from set theory, logic, relations, combinatorics, number systems, algorithms, graph theory, and automata. Prerequisite: A grade of "C" or better in MATH 111 or recommending score on placement test.

CALCULUS II

MATH 211 Su, F, W, Sp 5 Credits
50 hours of lecture

Continuation of MATH 113. Trigonometric functions, exponents, logarithms, hyperbolic functions, methods of integration, and applications of the integral and indeterminate forms. Prerequisite: A grade of "C" or better in MATH 113.

CALCULUS III

MATH 212 F, W, Sp 5 Credits
50 hours of lecture

Continuation of MATH 211. Parametric equations, polar coordinates, conic sections, infinite series, and vectors in two and three dimensions. Prerequisite: a grade of "C" or better in MATH 211.

CALCULUS IV

MATH 213 W, Sp 5 Credits
50 hours of lecture

Continuation of MATH 212. Solid analytic geometry, partial derivatives, multiple integrals, line and surface integrals. Prerequisite: A grade of "C" or better in MATH 212.

METEOROLOGY

LINEAR ALGEBRA

MATH 215 F 5 Credits
50 hours of lecture

Elementary linear algebra, geometrical vectors, matrices, determinants, linear equations, vector spaces, and linear transformations. Prerequisite: A grade of "C" or better in MATH 211.

DIFFERENTIAL EQUATIONS

MATH 221 Sp 5 Credits
50 hours of lecture

Elementary theory and applications of ordinary differential equations. Linear equations, linear systems, Laplace transforms, boundary value problems, series and iterative methods. Prerequisite: Concurrent enrollment in MATH 213 or a grade of "C" or better in MATH 213.

SELECTED TOPICS

MATH 280 1-5 Credits
50 hours of lecture

Selected topics in mathematics. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit. Individual topics are listed in the quarterly class schedules.

SPECIAL PROJECTS

MATH 290 F, W, Sp 1-5 Credits
Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

ATMOSPHERE AND THE ENVIRONMENT

METR 101 F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

Fundamental theories in meteorology and current topics in the atmospheric sciences are developed conceptually for non-science students interested in the changing environment. Topics include atmospheric structure and composition, global circulation and atmospheric motions, clouds and precipitation, weather patterns and weather prediction, tornadoes, hurricanes, the greenhouse effect, atmospheric ozone, air pollution, and El Niño.

SPECIAL PROJECTS

METR 290 F, W, Sp 1-5 Credits
Opportunity to plan and complete special projects approved by the Instructional Unit. Prerequisite: Consent of Instructional Unit.

MUSIC

SPECIAL SEMINARS

MUS 100 Su, F, W, Sp 1-5 Credits
50 hours of lecture

Special workshops on various musical topics as listed in the quarterly class schedule.

BEGINNING PIANO CLASS

MUS 101 Su, F, W, Sp 2 Credits
20 hours of lecture

Beginning-level study of the piano.

READING RHYTHM LAB

MUS 103 F, W, Sp 1-2 Credits
40 hours of lab

Learn or improve reading of musical rhythms. Self-paced, individualized instruction using tapes. Placement in program via pre-test. Covers basic to professional level.

MUSIC IN EARLY CHILDHOOD EDUCATION

MUS 105 Su, F, W, Sp 3 Credits
30 hours of lecture

How to use music and movement effectively with young children. Improve own skills in singing, using instruments and moving to music.

BEGINNING GUITAR CLASS

MUS 110 W, Sp 2 Credits
20 hours of lecture

Beginning-level study of the guitar.

BEGINNING VOICE CLASS

MUS 115 W 2 Credits
10 hours of lecture 20 hours of lab

Basic technique and knowledge about singing. No previous experience or music study required.

ROCK MUSIC

MUS 125 F, W, Sp 3 Credits
30 hours of lecture

Rhythm, melody, harmony, timbre, text uses, and form in current rock music. Problems and definitions of these elements with illustrations from various styles of rock music.

MUSIC APPRECIATION

MUS 128 Su, F, W, Sp 3 Credits
30 hours of lecture

Study and understanding of music. Nonverbal explorations into the listening process, a brief look at the history of Western music, and work in formal descriptive music analysis.

MUSIC HISTORY

MUS 131 F 5 Credits
50 hours of lecture

Music of the Middle Ages, Renaissance and Baroque studied in context of its cultural and historical environment. Recordings of Gregorian chant, polyphonic music of the Renaissance (des Pres and Palestrina) and Baroque music (Bach, Frescobaldi, Corelli, Monteverdi, and Handel) listened to and studied.

MUSIC HISTORY

MUS 132 W 5 Credits
50 hours of lecture

Music of the classical and romantic eras studied in context of its cultural and historical environment. Recordings of Haydn, Mozart, Beethoven, Schubert, Wagner, Brahms, and others listened to and studied.

MUSIC HISTORY

MUS 133 Sp 5 Credits
50 hours of lecture

Music of the twentieth century studied in context of its cultural and historical environment. Recordings and live performances. Debussy, Stravinsky, Schoenberg, Berg, Hindemith, Stockhausen, and others listened to and studied in context of 20th century culture.

JAZZ APPRECIATION

MUS 135 F, W, Sp 3 Credits
30 hours of lecture

A one-quarter survey of jazz history in the United States, designed for the non-performer. A course in directed listening, developing listening skills, and building a shared repertoire of jazz classics, including live performances by contemporary jazz artists.

MUSIC THEORY I

MUS 141 F 5 Credits
50 hours of lecture

First-year musicianship. Sound sources and nature of sound. Writing skills and use of musical symbol-notation. Basic vocabulary of music. Introduction to forms, composition, and analysis. Open to all students. Concurrent enrollment in MUS 144 required.

MUSIC THEORY II

MUS 142 W 5 Credits
50 hours of lecture

Continuation of MUS 141. Addition to the I 6/4, II, VI, III chords to harmonic tones, ear training in melodic and rhythmic concepts. Intervals and introduction to the keyboard. Concurrent enrollment in MUS 145 required. Prerequisite: MUS 141 or consent of Instructional Unit.

MUSIC THEORY III

MUS 143 Sp 5 Credits
50 hours of lecture

Continuation of MUS 142. Chromatic chords, popular song forms and jazz-related harmonies and forms. Concurrent enrollment in MUS 146 required. Prerequisite: MUS 142 or consent of Instructional Unit.

EAR TRAINING I

MUS 144 F 2 Credits
20 hours of lecture

Learning to write what is heard in melodic and intervallic ways. Sight singing and chord recognition. Develops rhythmic, melodic, and harmonic perception skills through dictation, sight singing and drill.

EAR TRAINING II

MUS 145 W 2 Credits
20 hours of lecture

Continuation of MUS 144. Learning to write what is heard in melodic and intervallic ways. Sight-singing and chord recognition. Develops rhythmic, melodic, and harmonic perception skills through dictation, sight-singing and drill. Prerequisite: MUS 144 or consent of Instructional Unit.

EAR TRAINING III

MUS 146 Sp 2 Credits
20 hours of lecture

Learning to write what is heard in melodic and intervallic ways. Sight-singing and chord recognition. Prerequisite: MUS 145 or consent of Instructional Unit.

ORCHESTRA

MUS 150 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

ORCHESTRA

MUS 151 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

ORCHESTRA

MUS 152 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

WOMEN'S CHORAL ENSEMBLE

MUS 153 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

WOMEN'S CHORAL ENSEMBLE

MUS 154 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

WOMEN'S CHORAL ENSEMBLE

MUS 155 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

APPLIED VOICE

MUS 170 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required.

APPLIED VOICE

MUS 171 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required.

APPLIED VOICE

MUS 172 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Prerequisite: Written consent of Instructional Unit required.

APPLIED PIANO

MUS 173 Su, F, W, Sp 1-2 Credits
20 hours of lecture

For students with some previous keyboard experience. Prerequisite: MUS 201 and written consent of Instructional Unit required.

APPLIED PIANO

MUS 174 Su, F, W, Sp 1-2 Credits
20 hours of lecture

For students with some previous keyboard experience. Prerequisite: MUS 201 and written consent of Instructional Unit required.

Music

APPLIED PIANO

MUS 175 Su, F, W, Sp 1-2 Credits
20 hours of lecture

For students with some previous keyboard experience.
Prerequisite: MUS 201 or consent of Instructional Unit.

APPLIED INSTRUMENT

MUS 176 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

APPLIED INSTRUMENT

MUS 177 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

APPLIED INSTRUMENT

MUS 178 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

CONCERT BAND

MUS 180 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT BAND

MUS 181 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT BAND

MUS 182 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT CHOIR

MUS 183 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

CONCERT CHOIR

MUS 184 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

CONCERT CHOIR

MUS 185 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

JAZZ IMPROVISATION

MUS 186 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Improvisation on one or more of the traditional jazz band instruments or through vocal interpretation.

VOCAL JAZZ ENSEMBLE

MUS 187 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

VOCAL JAZZ ENSEMBLE

MUS 188 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

VOCAL JAZZ ENSEMBLE

MUS 189 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

INSTRUMENTAL ENSEMBLE

MUS 193 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Combination of woodwinds and brasses organized as performing groups. Experience in ensemble playing. Familiarization with literature for ensembles.

JAZZ ENSEMBLE

MUS 195 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

JAZZ ENSEMBLE

MUS 196 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

JAZZ ENSEMBLE

MUS 197 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

INTERMEDIATE PIANO CLASS

MUS 201 Su, F, W, Sp 2 Credits
20 hours of lecture

Intermediate-level study of the piano. Prerequisite: MUS 101 or consent of Instructional Unit.

ADVANCED PIANO CLASS

MUS 202 W, Sp 2 Credits
20 hours of lecture

A continuation of instruction from Intermediate Piano. Baroque, classic, romantic, and contemporary repertoire; jazz stylings and fake books. Prerequisite: MUS 201 or consent of Instructional Unit.

MUSIC THEORY IV

MUS 241 F 3 Credits
30 hours of lecture

Extended chromatic chords, borrowed chords, Neapolitan 6th chords, augmented 6th chords, altered dominants, and chromatic mediants. Concurrent enrollment in MUS 244 required. Prerequisite: MUS 143 or consent of Instructional Unit.

MUSIC THEORY V

MUS 242 W 3 Credits
30 hours of lecture

Study of variation form, sonata form, rondo form and fugue. Concurrent enrollment in MUS 245 required. Prerequisite: MUS 241 or consent of Instructional Unit.

MUSIC THEORY VI

MUS 243 Sp 3 Credits
30 hours of lecture

Invention and two-voice counterpoint. Extensions of harmonic language and compositional styles in the 20th/21st century, including atonal forms. Concurrent enrollment in MUS 245 required. Prerequisite: MUS 242 or consent of Instructional Unit.

EAR TRAINING IV

MUS 244 F 2 Credits
20 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes.

EAR TRAINING V

MUS 245 W 2 Credits
20 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes. Prerequisite: MUS 244.

EAR TRAINING VI

MUS 246 Sp 2 Credits
20 hours of lecture

Trains students to write what they hear in harmonic and polyphonic textures. Examples coordinated with theory classes. Prerequisite: MUS 245.

ORCHESTRA

MUS 250 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

ORCHESTRA

MUS 251 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

ORCHESTRA

MUS 252 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of orchestral literature from a variety of periods and styles.

Music

WOMEN'S CHORAL ENSEMBLE

MUS 253 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

WOMEN'S CHORAL ENSEMBLE

MUS 254 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

WOMEN'S CHORAL ENSEMBLE

MUS 255 F, W, Sp 1-2 Credits
10 hours of lecture 20 hours of lab

Performance of choral music from a variety of periods and styles written for women's voices. Prerequisite: Audition or consent of Instructional Unit.

APPLIED VOICE

MUS 270 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: Written consent of Instructional Unit required.

APPLIED VOICE

MUS 271 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: Written consent of Instructional Unit required.

APPLIED VOICE

MUS 272 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private voice lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: Written consent of Instructional Unit required.

APPLIED PIANO

MUS 273 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: MUS 201 or consent of Instructional Unit.

APPLIED PIANO

MUS 274 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: MUS 201 or consent of Instructional Unit.

APPLIED PIANO

MUS 275 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Prerequisite: MUS 201 or consent of Instructional Unit.

APPLIED INSTRUMENT

MUS 276 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

APPLIED INSTRUMENT

MUS 277 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

APPLIED INSTRUMENT

MUS 278 Su, F, W, Sp 1-2 Credits
20 hours of lecture

Private lessons with a college-approved teacher. Lesson fees paid directly to the instructor in accordance with each instructor's fee schedule. Instruction available for orchestra and band instruments. Prerequisite: Written consent of Instructional Unit required.

CONCERT BAND

MUS 280 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT BAND

MUS 281 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT BAND

MUS 282 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Open to all students interested in continuing to perform on their respective instruments.

CONCERT CHOIR

MUS 283 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

CONCERT CHOIR

MUS 284 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

CONCERT CHOIR

MUS 285 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

The concert choir performs a wide variety of choral music in at least one public concert per quarter. Music notation, vocal technique, and effective interpretation of music literature. Open to all students interested in improving their vocal skills. Prerequisite: Audition or consent of Instructional Unit.

VOCAL JAZZ ENSEMBLE

MUS 287 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

VOCAL JAZZ ENSEMBLE

MUS 288 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

VOCAL JAZZ ENSEMBLE

MUS 289 F, W, Sp 3 Credits
20 hours of lecture 20 hours of lab

Selection, arrangement, rehearsal, and performance of a variety of popular vocal jazz pieces. Prerequisite: Audition or consent of Instructional Unit.

SPECIAL PROJECTS

MUS 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

JAZZ ENSEMBLE

MUS 295 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

JAZZ ENSEMBLE

MUS 296 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

JAZZ ENSEMBLE

MUS 297 Su, F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Performance of arrangements by modern composers. Study of jazz performance and techniques.

NURSING

NURSING CONFERENCE

NURS 013 F, W, Sp 1 Credit

Application of concepts and topics presented in NURS 101, 102, 103, 201, 202, 203 or 204. Continued development of skills and techniques related to nursing competencies. Concurrent enrollment in NURS 101, 102, 103, 201, 202, 203 or 204 required.

FUNDAMENTALS OF NURSING

NURS 101 F, W, Sp 8 Credits
40 hours of lecture 80 hours of lab

Overview of nursing with emphasis on nursing process, dosage calculation and application of principles and basic techniques of nursing care common to all patients with focus on the older adult. Long-term care settings are used for clinical applications. Prerequisite: Consent of Instructional Unit or HEOC advising.

FAMILY-CENTERED NURSING

NURS 102 F, W, Sp 8 Credits
40 hours of lecture 80 hours of lab

Incorporates theory related to the normal processes of pregnancy, labor and delivery, maternal and newborn care with supervised clinical experiences of mother-infant families; abnormal processes are also included. A follow through experience is utilized. Concurrent enrollment in NURS 122 required. Prerequisite: NURS 101 or consent of consent of Instructional Unit.

LIFE SPAN MEDICAL/SURGICAL NURSING I

NURS 103 F, W, Sp 8 Credits
40 hours of lecture 80 hours of lab

Selected theory related to disease processes and surgical experience. Application of principles of asepsis in the care of pediatric and adult medical-surgical patients. Expansion of the nursing process concepts. Opportunities for students to refine previously learned technical skills and acquire new assessment skills. Concurrent enrollment in NURS 123 required. Prerequisite: NURS 102 or consent of Instructional Unit.

NURSING OF ADULTS AND CHILDREN

NURS 104 Su 18 Credits
60 hours of lecture 240 hours of lab

Medical and surgical nursing of hospitalized patients with common illnesses. Supervised practice in medical, surgical and pediatric nursing. Prerequisite: BIOL 233 and NURS 103 or consent of Instructional Unit.

FAMILY-CENTERED NURSING SKILLS

NURS 122 F, W, Sp 1 Credit
20 hours of lab

Nursing skills needed in the care of women in labor, delivery and postpartum. Skills needed in caring for newborn infants in the acute care setting. Concurrent enrollment in NURS 102 required. Prerequisite: NURS 101 or consent of Instructional Unit.

MEDICAL/SURGICAL NURSING SKILLS

NURS 123 F, W, Sp 1 Credit
20 hours of lab

Nursing skills needed in the care of adults and children in a medical-surgical acute care and long-term care setting. Concurrent enrollment in NURS 103 required. Prerequisite: NURS 102 and 122 or consent of Instructional Unit.

NURSING SKILLS PRACTICE I

NURS 125 F, W, Sp 1-10 Credits

Practice in the nursing skills lab under supervision at the nursing assistant and practical nursing levels. Concurrent enrollment in a 100-level nursing course required.

SELECTED TOPICS-LEVEL II

NURS 150 F, W, Sp 1-15 Credits

Independent study modules to meet needs of the student. Course contents may be drawn from any of the Level I and II nursing courses. Credit will be based upon contracted work in keeping with college policies. Credit is not applicable toward a nursing major at Clark College. Prerequisite: Consent of nursing director.

LIFE SPAN MEDICAL/SURGICAL NURSING II

NURS 201 F, W, Sp 12 Credits
40 hours of lecture 160 hours of lab

Common health problems related to fluid and acid-base balance, urinary elimination, oxygenation, circulation and utilization of nutrients. Nursing process theory emphasizing assessment, planning, intervention and evaluation. Care of patients with related problems is accomplished in acute care settings. Patient needs, priorities and the nursing process form the basis for clinical practice. Prerequisite: NURS 103 and BIOL 240 or consent of Instructional Unit.

LIFE SPAN MEDICAL/SURGICAL NURSING III

NURS 202 F, W, Sp 12 Credits
40 hours of lecture 160 hours of lab

Health problems related to chemical control, neural regulation, sensory perception, proliferation of cells, support and movement care of hospitalized patients with related problems. Nursing process emphasizing patient care, management and evaluation. Prerequisite: NURS 201 or consent of Instructional Unit.

NUTRITION**MENTAL HEALTH NURSING**

NURS 203 F, W, Sp 6 Credits
20 hours of lecture 80 hours of lab

Mental health concepts applied in all aspects of life. Theory and clinical experiences develop therapeutic potential in the nurse-patient relationship and care of the mentally ill person. Clinical experiences take place in a psychiatric hospital and in the community. Prerequisite: NURS 202 or consent of Instructional Unit.

LEADERSHIP AND ADVANCED NURSING CONCEPTS

NURS 204 F, W, Sp 6 Credits
20 hours of lecture 80 hours of lab

Theory and application of leadership and management principles in the clinical setting. Selected advanced nursing concepts related to the care of clients in a variety of clinical settings. Prerequisite: NURS 202 or consent of Instructional Unit.

CONTEMPORARY ISSUES IN NURSING

NURS 205 F, W, Sp 1 Credit
10 hours of lecture

Recent developments in nursing and their effects on nurses. Ethical concerns as well as preparation for licensure, employment and continuing education. Prerequisite: NURS 201.

NURSING SKILLS PRACTICE II

NURS 225 F, W, Sp 1-10 Credits

Practice in the nursing skills lab under supervision at the associate degree nursing level. Concurrent enrollment in a 200-level nursing course required.

SELECTED TOPICS-LEVEL III

NURS 250 F, W, Sp 1-15 Credits

Independent study modules designed to meet student specialized needs. Content may be drawn from any of the associate degree nursing courses. Credit will be based upon contracted work in keeping with college policies. Credit is not applicable toward a nursing major at Clark College. Prerequisite: consent of nursing director.

SPECIAL PROJECTS

NURS 290 Su, F, W, Sp 1-15 Credits

Opportunity to plan, organize and complete special projects approved by the faculty of the department. Prerequisite: Consent of Instructional Unit.

GENERAL NUTRITION

NUTR 103 Su, F, W, Sp 3 Credits
30 hours of lecture

Nutrition of healthy human beings. Principles of balanced nutrition, physiology and metabolism of nutrients, and changing nutritional needs throughout the human life span. Prerequisite: A grade of "C" or better in CHEM 111 or higher.

PARALEGAL

INTRODUCTION TO LEGAL THEORY

PRLE 101 F, W, Sp 3 Credits
30 hours of lecture

Introduction to the origin of our legal system and the theories giving rise to our common law, civil law, and statutory law systems, with emphasis on legal terminology in our contemporary legal system. Review of the court system with emphasis on our state courts and an overview of substantive law.

LEGAL PROCEDURES AND ETHICS

PRLE 102 W, Sp 3 Credits
30 hours of lecture

Substantive and procedural law in our contemporary legal system. Review of the operation of a law office and ethics applicable to paralegals and legal assistants.

LEGAL RESEARCH

PRLE 103 F, W, Sp 3 Credits
30 hours of lecture

Functions of the law library, indexing, and cataloging systems. Development of research skills using indexing systems, digests, encyclopedias, reporter systems, and practice manuals. One field trip required. Prerequisite: PRLE 102 recommended.

LEGAL INTERVIEWING AND INVESTIGATION

PRLE 104 F, Sp 3 Credits
30 hours of lecture

Strategies, techniques and tactics of interviewing witnesses and clients including investigation procedures and preparation of complete reports for the attorney. Prerequisite: SPEE 201 or 211 and PRLE 103 recommended.

FAMILY LAW

PRLE 105 W 3 Credits
30 hours of lecture

Law and theory relating to dissolutions of marriage, legal separation, parenting/custody agreements, prenuptials, antenuptial agreements, adoptions, child support, change of name, and post-divorce issues such as maintenance modification, child support modification, and parenting plan modifications. Prerequisite: PRLE 101 recommended.

ESTATE PLANNING AND PROBATE LAW

PRLE 107 Sp 3 Credits
30 hours of lecture

Law and theory of estate planning, probate, and options of probate with emphasis on wills, trusts, community property agreements, gifts, estate taxation, probate procedures, administration and accounting. Prerequisite: PRLE 101 recommended.

CIVIL LITIGATION

PRLE 109 W 3 Credits
30 hours of lecture

The litigation process, with emphasis on the law of torts and civil litigation including client and witness interviews, pleadings preparation, investigation, and appeal procedures. Prerequisite: PRLE 102 and 104 recommended.

CRIMINAL LITIGATION

PRLE 110 F 3 Credits
30 hours of lecture

The litigation process, with emphasis on criminal law including client and witness interviews, pleadings preparation, investigation and appeals preparation. Study of general criminal law and procedures to provide a basic understanding of the criminal justice system. Prerequisite: PRLE 102 and 104 recommended.

REAL ESTATE AND PROPERTY LAW

PRLE 111 F 3 Credits
30 hours of lecture

Law of personal and real property with emphasis on common types of real estate transactions and conveyances such as deeds, contracts, leases, deeds of trust, liens, zoning agreements, assessments, searches and foreclosures. Drafting of conveyance instruments and methods of recording and searching public records. Prerequisite: PRLE 101 recommended.

BUSINESS AND CORPORATE LAW PRACTICES

PRLE 113 W 3 Credits
30 hours of lecture

Significant state law regarding corporations and partnerships, preparation and filing of corporate documents, partnership agreements, conduct of corporate shareholder and director meetings, corporate distributions, commercial litigation, and secured transactions. Prerequisite: PRLE 101 recommended.

LAW OFFICE PROCEDURES

PRLE 115 F, Sp 3 Credits
30 hours of lecture

Law office organization, specialized recordkeeping and accounting, scheduling, filing, management of personnel and other aspects of law office management. Prerequisite: PRLE 102 recommended.

PHARMACY TECHNICIAN

PERSONAL INJURY PRACTICES & PROCEDURES

PRLE 119 F 3 Credits
30 hours of lecture

Resolution of personal injury claims with insurance companies, social security and workers' compensation claims, with emphasis on the interpretation of insurance policies and the procedures for processing claims and effecting settlements. The methods for identifying workers' compensation and social security claims, as well as the filing and processing of these claims through the applicable state and federal administrative law procedures. Prerequisite: PRLE 102 and 104 recommended.

LEGAL DOCUMENT PREPARATION

PRLE 151 W 3 Credits
30 hours of lecture

Preparation of legal documents, legal terminology, and court rules and procedures as applied to general areas of law. Ability to type 40 wpm is recommended. Prerequisite: PRLE 101,102 and BTEC 122 or 125 or consent of Instructional Unit.

LEGAL CASE PREPARATION

PRLE 152 Sp 3 Credits
30 hours of lecture

Complete preparation of a legal case, from intake to litigation including applicable legal terminology, court rules and procedures. Ability to type 40 wpm is recommended. Prerequisite: PRLE 151 or consent of Instructional Unit.

LEGAL OFFICE SEMINAR

PRLE 153 F, W, Sp 1 Credit
10 hours of lecture

Overview of student success strategies, library resources, the Legal system in the United States and the various employment opportunities in legal office occupations including discussion of job requirements and responsibilities. Enrollment in PRLE 299 required. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

PRLE 280 Su, F, W, Sp 1-3 Credits
30 hours of lecture

Varying topics for the paralegal profession as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

PRLE 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

PARALEGAL INTERNSHIP

PRLE 299 Su, F, W, Sp 1-3 Credits

Supervised learning experience in a law office or other legal facility for specialized paralegal internship. Prerequisite: Consent of Instructional Unit.

OVERVIEW OF PHARMACY

PHAR 100 W 2 Credits
20 hours of lecture

Overview of pharmacy with particular focus on the technician in pharmacy practice settings; including job roles, resources and ethical standards of practice.

A MINI DOSE OF PHARMACY

PHAR 101 Sp 1 Credit
10 hours of lecture

A preview of the practice of pharmacy. Identifies the role of the pharmacy tech, explores various pharmacy practice settings for employment, beginning basics of the language of pharmacy, both in written and oral forms.

INTRODUCTION TO PHARMACY

PHAR 105 F 4 Credits
40 hours of lecture

Introduction to the role of the pharmacy technician in a variety of pharmacy practice settings; including history, personnel, resources, and ethical standards of pharmacy practice. Prerequisite: A grade of "C" or better in HEOC 125 and consent of Instructional Unit.

PHARMACY CALCULATIONS

PHAR 110 Sp 3 Credits
30 hours of lecture

Basic math and arithmetic skills as they relate to pharmacy practice. Calculations and manipulations of metrics and related dosages. Pharmacy topics related to mathematical functions are emphasized. Prerequisite: Consent of HEOC advisor.

PHARMACOLOGY I PRACTICE

PHAR 112 W 5 Credits
50 hours of lecture

Drugs useful in prevention, diagnosis and treatment of human disease, including their classification, dosage and therapeutic effects. Prerequisite: Written consent of health occupations advisor required.

PHARMACY RECORDS MANAGEMENT

PHAR 114 F 4 Credits
30 hours of lecture 20 hours of lab

Pharmacy records and knowledge essential to the practice of pharmacy in the work site. Correlation of terminology, computer system manipulation, and practical application of pharmacy record keeping systems. Prerequisite: Consent of HEOC advisor.

Pharmacy Technician

PHARMACY EXTERNSHIP I

PHAR 118 W 4 Credits

Practical on-the-job instruction in the knowledge base required of a pharmacy assistant (technician) in the work force. Community pharmacies/facilities will be used for this course. Concurrent enrollment in PHAR 119 required. Prerequisite: A grade of "C" or better in PHAR 105 and consent of Instructional Unit.

PHARMACY EXTERNSHIP SEMINAR I

PHAR 119 W 1 Credit
10 hours of lecture

Discussion of issues surrounding the work site experiences in PHAR 118. Work ethics, interpersonal communication, problem-solving and success in the workplace emphasized. Concurrent enrollment in PHAR 118 and written consent of Instructional Unit required.

PHARMACOLOGY II PRACTICE

PHAR 122 Sp 5 Credits
50 hours of lecture

Continuation of PHAR 112. Drugs useful in prevention, diagnosis and treatment of human disease, including their classification, dosage, and therapeutic effects. AIDS education, use of safety devices/environmental quality in the pharmacy setting. Prerequisite: completion of PHAR 112 and written consent of Instructional Unit required.

PHARMACY LAW

PHAR 123 W 2 Credits
20 hours of lecture

State and federal laws and regulations that pertain to the duties of pharmacy technicians. Revised Code of Washington and Washington Administrative Codes will be reviewed. Prerequisite: written consent of Instructional Unit required.

OVER-THE-COUNTER DRUGS

PHAR 125 W 3 Credits
30 hours of lecture

Medications available to patients without prescription. Particular attention to those medications that have changed from legend to non-prescription products and those most frequently carried by local pharmacies. Prerequisite: written consent of Instructional Unit required.

STERILE PRODUCTS AND ASEPTIC TECHNIQUES

PHAR 127 Sp 3 Credits
30 hours of lecture

Sterile product information and aseptic admixture techniques. Principles of sterile product manipulation for the purpose of intravenous admixture of drug doses and products. Prerequisite: written consent of Instructional Unit required.

PHARMACY EXTERNSHIP II

PHAR 128 Sp 4 Credits

Continued practical, on-the-job instruction in the knowledge base required of a pharmacy (technician) in the work force. Concurrent enrollment in PHAR 129. Prerequisite: Completion of PHAR 105 and written consent of Instructional Unit required.

PHARMACY EXTERNSHIP SEMINAR II

PHAR 129 Sp 1 Credit
10 hours of lecture

Discussion of issues surrounding the work site experiences in PHAR 128. Work ethics, interpersonal communication, problem-solving and success in the workplace emphasized. Concurrent enrollment in PHAR 128 and written consent of Instructional Unit required.

PHILOSOPHY

INTRODUCTION TO PHILOSOPHY

PHIL 101 Su, F, W, Sp 5 Credits
50 hours of lecture

Some of the great themes and major figures of Western philosophy.

GREAT THINKERS I

PHIL 105 F 5 Credits
50 hours of lecture

Great thinkers and ideas of the ancient world - the beginnings of Western thought.

GREAT THINKERS II

PHIL 106 W 5 Credits
50 hours of lecture

Introduction to some of the great thinkers and ideas of the sixteenth, seventeenth and eighteenth centuries.

GREAT THINKERS III

PHIL 107 Sp 5 Credits
50 hours of lecture

Some of the major thinkers and ideas of the nineteenth and twentieth century. Emphasis on the great thinkers of the nineteenth century.

INTRODUCTION TO MODERN LOGIC

PHIL 170 Su, F, W, Sp 5 Credits
50 hours of lecture

Introduction to modern symbolic logic.

ETHICS

PHIL 240 Su 5 Credits
50 hours of lecture

Theories of morality from ancient times to the present, with attention to both practical and theoretical issues. The relationship between ethics and other areas of philosophy.

PHILOSOPHY OF RELIGION

PHIL 251 Sp 5 Credits
50 hours of lecture

Basic nature, elements, and functions of religion. Comparison of the foundations and significant differences and similarities of the major religious traditions, with an emphasis on developing a rational understanding of the nature, variety, and significance of religious ideas, values, and practices in various societies.

SELECTED TOPICS

PHIL 280 Su, F, W, Sp 1-3 Credits
30 hours of lecture

Varying topics in philosophy, as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

PHIL 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: completion of two philosophy courses and consent of Instructional Unit.

PHYSICAL EDUCATION

AEROBIC DANCE CONDITIONING

PE 100 F, W, Sp 1 Credit
20 hours of lab

Basic aerobic dance conditioning to music for improving muscular endurance, strength, flexibility, and cardiovascular fitness.

FITNESS WALKING

PE 102 Su, F, W, Sp 1-2 Credits
40 hours of lab

Emphasis on walking programs, including interval training, power walking, and race walking. Walking technique and health benefits also discussed.

BENCH STEP AEROBICS

PE 103 F, W, Sp 1 Credit
20 hours of lab

Introduction to high-intensity/low impact exercise promoting overall body strength and cardiovascular fitness that involves stepping up and down on a bench step platform to music.

CIRCUIT FITNESS

PE 104 Su, F, W, Sp 1-2 Credits
40 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Students must earn 2 credits of PE 104 before advancing to PE 105.

CIRCUIT FITNESS

PE 105 Su, F, W, Sp 1-2 Credits
40 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Prerequisite: Two credits of PE 104.

CIRCUIT FITNESS

PE 106 Su, F, W, Sp 1-2 Credits
40 hours of lab

An individualized systematic approach to cardiovascular fitness through the use of multiple weight machines and aerobic equipment. Pre and post fitness assessments conducted. Prerequisite: 2 credits of PE 105.

SPEED, AGILITY, AND QUICKNESS

PE 107 F, Sp 1 Credit
20 hours of lab

Focuses on biomechanics of running, development of speed, agility and personal quickness. Learning of drills and enhancement of skills to improve personal performance.

Physical Education

INDEPENDENT FITNESS PROGRAM

PE 108 Su, F, W, Sp 1-2 Credits
40 hours of lab

A self-paced conditioning course for the motivated, self-directed student. Design, implement and document a goal-oriented fitness program with instructor advice and approval. Areas of concentration will be the three components of fitness: Cardiovascular endurance, muscular strength and muscular flexibility training.

MARTIAL ARTS

PE 109 F, W, Sp 1 Credit
20 hours of lab

Each section will focus on a different style of martial arts. Kung-Fu is a Chinese method of self-defense; covers history and philosophy. Basic strikes, blocks, and escapes from various attacks and grabs. Judo is a close-quarter combat martial art where students learn Fing techniques, basic takedowns, escapes, and joint locks. Tae Kwon Do is a Korean martial art that predominately focuses on kicking.

SELF DEFENSE

PE 110 F, W, Sp 1 Credit
20 hours of lab

This course is designed to teach the student basic self-defense techniques as well as situational awareness through class participation and discussion.

TONE AND TRIM

PE 112 F, W, Sp 1 Credit
20 hours of lab

Stretching exercise class (with music) to improve muscle tone, posture, flexibility and general fitness with emphasis on increased abdominal and back strength.

TOTAL BODY CONDITIONING

PE 113 F, W, Sp 2 Credits
40 hours of lab

Students will use fitness center equipment and a variety of conditioning activities to develop cardiovascular endurance, muscular strength, and flexibility. Course will emphasize how to structure an exercise plan to meet individualized goals.

WEIGHT TRAINING-GENERAL I

PE 115 Su, F, W, Sp 1 Credit
20 hours of lab

Strength development through basic exercise and lift techniques. Beginning theories and techniques in fitness conditioning, body building, and power lifting.

WEIGHT TRAINING-POWER LIFTING I

PE 117 W, Sp 1 Credit
20 hours of lab

Conditioning class for students interested in strength improvement through heavy resistance training. The Olympic lifts along with numerous power/speed lifts will be performed for personal improvement in various fitness parameters.

WEIGHT TRAINING-BODY BUILDING I

PE 119 20 hours of lab 1 Credit

Techniques and theory of body building along with information on nutrition, weight management, muscle physiology, steroid abuse and contest preparation. Development of personal training protocols to meet individual goals and interests. Prerequisite: PE 115.

CARDIO KICKBOXING-BEGINNING

PE 120 F, W, Sp 1 Credit
20 hours of lab

Combination of aerobic dance and martial arts, including American Kickboxing and Thai Boxing, in a format that increases cardiovascular endurance, sharpens reflexes and enhances power.

YOGA

PE 121 F, W, Sp 1 Credit
20 hours of lab

Introduction to hatha yoga (physical yoga) with an emphasis on postures, breathing and body-mind centering.

T'AI CHI

PE 122 Su, F, W, Sp 1 Credit
20 hours of lab

T'ai Chi is an ancient form of mental and spiritual discipline developed in China. The movements of the t'ai chi form are slow and deliberate, helping with relaxation, focus, strengthening, and balance.

HEALTHY HEART-BEGINNING

PE 123 F, W, Sp 2 Credits
10 hours of lecture 20 hours of lab

Cardiac prevention and rehabilitation exercise: designed to promote awareness and practice of exercise, nutrition, and stress. Skills in dealing with pre- and post-cardiac trauma.

BALLET-BEGINNING

PE 130 F, W, Sp 1 Credit
20 hours of lab

Beginning ballet technique including barre and centre work.

BALLROOM DANCE

PE 131 F, W, Sp 1 Credit
20 hours of lab

Fundamentals, forms and patterns of ballroom dance. Basic dances taught selected from smooth style, such as waltz, tango, and fox trot, swing style and American rhythm style including the Latin dances, rumba and samba. Develop confidence through practice with a variety of partners.

MODERN DANCE

PE 133 F, W, Sp 1 Credit
20 hours of lab

Fundamentals and techniques of modern dance and rhythmic self-expression.

MODERN JAZZ

PE 134 F, W, Sp 1 Credit
20 hours of lab

Beginning Modern Jazz technique. Students will study fundamental moves and learn a routine.

SWING DANCE-BEGINNING

PE 135 F, W, Sp 1 Credit
20 hours of lab

Basic patterns and partnering skills for East Coast Swing (jive), West Coast Swing (hustle), and Lindy Hop. Course covers dance technique, partnering skills, patterns and music identification.

TAP DANCE

PE 136 W 1 Credit
20 hours of lab

This course is designed as an introduction to beginning tap dance. Basic fundamentals will be studied and combinations will be put to use daily. Routines will be learned.

BASKETBALL

PE 140 F, W, Sp 1 Credit
20 hours of lab

Ball handling, shooting, passing, offensive and defensive techniques, rules, strategy and competitive play.

BASKETBALL CONDITIONING

PE 142 F 2 Credits
40 hours of lab

Fitness components through running, weight training, and basketball skill-related drills.

BOWLING

PE 143 F, W, Sp 1 Credit
20 hours of lab

Techniques, styles of play, rules of courtesy, scoring and competitive games.

CROSS COUNTRY CONDITIONING

PE 145 F 2 Credits
40 hours of lab

Various components of cross-country training to prepare the student for competitive running are taught. These components include strength and aerobic conditioning, stretching, nutrition and goal setting.

FENCING-FOIL

PE 147 F, W, Sp 1 Credit
20 hours of lab

Movement of fencing plus defense, offense, rules of bouting, officiating, and competition.

GOLF

PE 148 F 1 Credit
20 hours of lab

Skills, techniques, rules and etiquette on the course.

SOCCER

PE 150 Sp 1 Credit
20 hours of lab

Focus on individual offensive and defensive skills, game strategy, rules, and team tactics through the use of small-sided games and individual drills.

SOCCER CONDITIONING

PE 152 F 2 Credits
40 hours of lab

Strength and aerobic conditioning in preparation for competing in intercollegiate soccer play.

SOFTBALL

PE 153 Sp 1 Credit
20 hours of lab

Skills, rules and team play.

TENNIS

PE 155 Su, F, Sp 1 Credit
20 hours of lab

Basic tennis skills including grip, foot work, and strokes, such as backhand, forehand, volley and serve. The drop shot, lob, and overhead shots will be introduced, as will singles and doubles strategies, rules, scoring and court etiquette.

TRACK AND FIELD CONDITIONING

PE 157 W 2 Credits
40 hours of lab

Various components of track and field training to prepare the student for competitive play. These components include weight training, anaerobic conditioning, stretching, plyometric training, nutrition, goal setting and teamwork.

Physical Education

VOLLEYBALL

PE 158 F, W 1 Credit
20 hours of lab

Introduction to the fundamental skills and strategies of organized volleyball. Volleyball requires development of the following individual skills: forearm pass, set, spike, block, dig, and serve. In addition, students will gain an understanding of elementary team strategies. Students will learn to practice effective communication with teammates.

VOLLEYBALL CONDITIONING

PE 159 F 2 Credits
40 hours of lab

Fitness components through running, stretching, weight training, and volleyball-related drills.

BILLIARDS-BEGINNING

PE 162 F, W, Sp 1 Credit
20 hours of lab

Introduction to fundamental skills and strategies. Development of individual skills including stance, form, technique, vocabulary, and strategy.

AQUA EXERCISE

PE 171 F, W, Sp 1 Credit
20 hours of lab

Conditioning through water exercises for students with or without swimming ability. Increased fitness with emphasis on stretching, flexibility, and abdominal and back strength.

SCUBA-BEGINNING

PE 173 F, W, Sp 2 Credits
10 hours of lecture/20 hours of lab

Classroom lectures and discussion, swimming pool practice, and diving safety. Supervised experience in open water training optional at extra cost. Successful completion qualifies student for certification card. Prerequisite: Swimming ability.

SWIMMING-STROKE AND SKILL IMPROVEMENT

PE 175 F, W, Sp 1 Credit
20 hours of lab

For swimmer who is comfortable in deep water. Instruction and improvement of individual swimming strokes and survival skills.

SWIMMING-BEGINNING

PE 176 F, W, Sp 1 Credit
20 hours of lab

For non-swimmers and those who cannot swim 25 yards (one pool length). Opportunity to learn and improve individual swimming and water survival skills. Introduction to Red Cross swimming strokes with increased endurance and comfort in the water.

SWIMMING-ELEMENTARY

PE 177 F, W, Sp 1 Credit
20 hours of lab

Designed for beginning swimming students who wish to further their confidence in the water. Focus is on improving swimming proficiency and water survival skills. Beginning swimming skills that are emphasized include the crawl, breast stroke, and diving.

BACKPACKING

PE 181 1 Credit
20 hours of lab

Learn and apply basic outdoor skills through backpacking. Practice low impact methods.

HIKING

PE 182 Su, F, Sp 1 Credit
20 hours of lab

Experience hiking off-campus on designated trails. Course emphasizes basic safety and survival skills and practices low-impact hiking methods.

COOPERATIVE WORK EXPERIENCE

PE 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

AEROBIC/DANCE CONDITIONING-INTERMEDIATE

PE 200 F, W, Sp 1 Credit
20 hours of lab

Intermediate aerobic dance conditioning to music for improving muscular endurance, strength, flexibility, and cardiovascular fitness. Prerequisite: PE 100.

FITNESS WALKING-INTERMEDIATE

PE 202 Su, F, W, Sp 1-2 Credits
40 hours of lab

Intermediate fitness walking with emphasis on walking programs and technique. Prerequisite: PE 102.

BENCH STEP AEROBICS-INTERMEDIATE

PE 203 F, W, Sp 1 Credit
20 hours of lab

Intermediate high-intensity/low impact exercise program using a bench step promoting overall body strength and cardiovascular fitness. Prerequisite: PE 103.

SPEED, AGILITY, AND QUICKNESS

PE 207 F, Sp 1 Credit
20 hours of lab

Additional drills to further advance personal ability in running, quickness, speed. Includes advanced plyometric training techniques. Prerequisite: PE 107.

INDEPENDENT FITNESS PROGRAM-INTERMEDIATE

PE 208 Su, F, W, Sp 1-2 Credits
40 hours of lab

A continuation of the self-paced conditioning course, plus setting and implementing an additional personalized health related goal to be determined at the first individual meeting with instructor. Prerequisite: PE 108.

MARTIAL ARTS-INTERMEDIATE

PE 209 F, W, Sp 1 Credit
20 hours of lab

A further examination into a specified martial art. Prerequisite: PE 109.

TONE AND TRIM-INTERMEDIATE

PE 212 F, W, Sp 1 Credit
20 hours of lab

Continuation of general fitness improvement through stretching, flexibility and toning exercise. Prerequisite: PE 112.

TOTAL BODY CONDITIONING-INTERMEDIATE

PE 213 F, W, Sp 2 Credits
40 hours of lab

Continuation of individualized conditioning program for developing the various components of fitness. Additional focus on learning principals of fitness to create personalized workouts. Prerequisite: PE 113.

WEIGHT TRAINING-GENERAL II

PE 215 Su, F, W, Sp 1 Credit
20 hours of lab

Continuation of individual lifting skills. Application of principles and theories to design personal workouts. Additional advanced lifts and techniques to be used and reviewed via videotapes. Prerequisite: PE 115.

WEIGHT TRAINING-POWER LIFTING II

PE 217 W, Sp 1 Credit
20 hours of lab

Continued application of skill and conditioning level. Application of workout design and training theory will also be covered and applied. Assessment of personal fitness parameters. Prerequisite: PE 117.

WEIGHT TRAIN-BODY BUILDING II

PE 219 1 Credit
20 hours of lab

Continuation of individual body building skills and physical development. Design personal workout utilizing proper principles of training concerning lifts, nutrition and training techniques. Creation of personal posing routine, which includes the mandatory compulsory poses, is also required via video. Prerequisite: PE 119.

CARDIO KICKBOXING-INTERMEDIATE

PE 220 F, W, Sp 1 Credit
20 hours of lab

Continuation of PE 120. Intermediate students will demonstrate more advanced techniques and perform moves that require greater conditioning. Combines aerobic dance and martial arts, including American Kickboxing and Thai Boxing, in a format that increases cardiovascular endurance, sharpens reflexes and enhances power. Prerequisite: PE 120.

YOGA-INTERMEDIATE

PE 221 F, W, Sp 1 Credit
20 hours of lab

A continuation of Hatha yoga technique. Students will practice more advanced postures and a deeper exploration of body-mind centering. Prerequisite: PE 121.

T'AI CHI - INTERMEDIATE

PE 222 Su, F, W, Sp 1 Credit
20 hours of lab

T'ai Chi is an ancient form of mental and spiritual discipline developed in China. The movements of the T'ai Chi form are slow, deliberate and focused. Intermediate T'ai Chi will introduce additional movements of the Yang Family Short Form, as well as encourage a deeper exploration of the principles introduced in Beginning T'ai Chi. Prerequisite: PE 122.

BALLET-INTERMEDIATE

PE 230 F, W, Sp 1 Credit
20 hours of lab

Stronger techniques with more advanced steps and combinations including toe. Prerequisite: One or more years ballet experience.

BALLROOM DANCE-INTERMEDIATE

PE 231 F, W, Sp 1 Credit
20 hours of lab

Continuation plus new variations and style. Prerequisite: PE 131.

MODERN DANCE-INTERMEDIATE

PE 233 F, W, Sp 1 Credit
20 hours of lab

Intermediate techniques with opportunities for individual and group composition. Prerequisite: PE 133.

Physical Education

MODERN JAZZ-INTERMEDIATE

PE 234 F, W, Sp 1 Credit
20 hours of lab

Refinement of jazz technique and skill improvement.
Prerequisite: PE 134.

SWING DANCE-INTERMEDIATE

PE 235 F, W, Sp 1 Credit
20 hours of lab

Continuation of PE 135. Includes partnering techniques such as leverage, posture, hovering, contrary body movement, rise and F, and sway, and styling such as Cuban motion for Latin, Sp action for East Coast Swing and heel leads for smooth. Introduction to opposite role as lead/follow.
Prerequisite: PE 135.

TAP DANCE-INTERMEDIATE

PE 236 W 1 Credit
20 hours of lab

This course is designed as an introduction to intermediate tap dance. Going beyond the basic fundamentals, intermediate level steps and combinations will be studied and put to use daily. Routines will be learned. Student choreography may be included. Prerequisite: PE 136.

BASKETBALL-INTERMEDIATE

PE 240 F, W, Sp 1 Credit
20 hours of lab

Continuation of skills, practice, and competitive play.
Prerequisite: PE 140.

BASKETBALL-ADVANCED

PE 241 W 1-2 Credits
40 hours of lab

Continuation of skills and practice through competitive play.

BASKETBALL CONDITIONING-INTERMEDIATE

PE 242 F 2 Credits
40 hours of lab

Further emphasis on fitness through running, related skills, and weight training activities. Prerequisite: PE 142.

BOWLING-INTERMEDIATE

PE 243 F, Sp 1 Credit
20 hours of lab

Advanced instruction in all phases of bowling including league play and competition. Prerequisite: PE 143.

CROSS COUNTRY

PE 244 F 1-2 Credits
40 hours of lab

The advancement of running technique and strategy through the daily practice of applicable skills. The testing of the skills will be performed at several competitive races throughout the region.

CROSS COUNTRY CONDITIONING INTERMEDIATE

PE 245 F 2 Credits
40 hours of lab

Various components of cross-country training to prepare the student for competitive running are taught. These components include strength and aerobic conditioning, stretching, nutrition, and goal setting as well as development of a running log.

FENCING-FOIL, SABRE/EPEE

PE 246 Sp 1 Credit
20 hours of lab

Movements of all three weapons of fencing. Emphasizes defense, offense, rules, officiating and competition.
Prerequisite: PE 147.

FENCING-FOIL INTERMEDIATE

PE 247 F, W, Sp 1 Credit
20 hours of lab

Skill refinement and advanced technique for experienced foil fencers. Prerequisite: PE 147.

GOLF-INTERMEDIATE

PE 248 F, Sp 1 Credit
20 hours of lab

Continuation of skills. Several rounds of golf will be played on local courses. Prerequisite: PE 148.

SOCCER-INTERMEDIATE

PE 250 Sp 1 Credit
20 hours of lab

Focus on learning and applying more advanced individual skills utilizing small and large groups to demonstrate more advanced team tactics. Prerequisite: PE 150.

SOCCER-INTERCOLLEGIATE ADVANCED

PE 251 F 1-2 Credits
40 hours of lab

Learn and apply offensive and defensive skills and tactics through intercollegiate play.

SOCCER CONDITIONING-INTERMEDIATE

PE 252 F 2 Credits
40 hours of lab

Strength and aerobic conditioning in preparation for intercollegiate soccer play. Prerequisite: PE 152.

SOFTBALL-INTERMEDIATE

PE 253 Sp 1 Credit
20 hours of lab

Continuation of skills, team play, offensive and defensive strategy, and team organization. Prerequisite: PE 153.

TENNIS-INTERMEDIATE

PE 255 Su, F, Sp 1 Credit
20 hours of lab

Refinement of tennis skills, advanced game strategies and strokes. Observe and assist 100 level students. Prerequisite: PE 155.

**TRACK AND FIELD-INTERCOLLEGIATE
ADVANCED**

PE 256 Sp 1-2 Credits
40 hours of lab

The advancement of track and field running, jumping and throwing skills and strategies by daily practice culminating in competitive play in several competitions throughout the region.

TRACK & FIELD CONDITIONING-INTERMEDIATE

PE 257 W 2 Credits
40 hours of lab

Various components of track and field training to prepare the student for competitive play are taught. These components include weight training, anaerobic and aerobic conditioning, stretching, plyometric training, nutrition, goal setting and teamwork. Intermediate conditioning includes hands-on involvement of administrative issues of track and field related to leadership and responsibility skills. Prerequisite: PE 157.

VOLLEYBALL-INTERMEDIATE

PE 258 F, W, Sp 1 Credit
20 hours of lab

Further development of individual skills, team offenses and defenses learned in the beginning level PE 158. Prerequisite: PE 158.

VOLLEYBALL CONDITIONING-INTERMEDIATE

PE 259 F 2 Credits
40 hours of lab

Continuation of volleyball drills and conditioning skills. Prerequisite: PE 159.

VOLLEYBALL-POWER

PE 260 Sp 1 Credit
20 hours of lab

Higher level of volleyball for the advanced player utilizing advanced skills and drills. Emphasis will be placed on advanced offensive and defensive strategies. Prerequisite: PE 158 and PE 258 or competitive experience.

VOLLEYBALL-ADVANCED

PE 261 F 1-2 Credits
40 hours of lab

Continuation of skills and practice through competitive play.

BILLIARDS-INTERMEDIATE

PE 262 F, W, Sp 1 Credit
20 hours of lab

Continuation of PE 162. Further development of more complex shots and strategies (English, duck, bunk, diamond). Provide assistance to the 100 level students with their basic stance and technique. Prerequisite: PE 162.

AQUA EXERCISE-INTERMEDIATE

PE 271 F, W, Sp 1 Credit
20 hours of lab

Continuation of water exercise conditioning through stretching, flexibility, abdominal and back strength. Prerequisite: PE 171.

SWIMMING-INTERMEDIATE

PE 274 F, W, Sp 1 Credit
20 hours of lab

For the elementary swimmer who is comfortable in deep water and can swim 25 yards. Review Red Cross swimming strokes and safety skills while increasing strength and endurance.

**SWIMMING-STROKE & SKILL IMPROVEMENT-
INTERMEDIATE**

PE 275 F, W, Sp 1 Credit
20 hours of lab

For the intermediate swimmer. Continuation of individual swimming strokes and endurance. Prerequisite: PE 175.

SELECTED TOPICS

PE 280 1-5 Credits
50 hours of lecture

The course focuses on selected topics in education. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedules.

SPECIAL PROJECTS

PE 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

CARE AND PREVENTION OF ATHLETIC INJURIES

PE 291 W 3 Credits
20 hours of lecture

Injury prevention in sports through understanding of conditioning, bio-mechanics, taping, bandaging, nutrition, immediate post-injury care, and rehabilitation of sports injury.

DISTANCE RUNNING TRAINING

PE 292 2 Credits
10 hours of lecture 20 hours of lab

Theoretical knowledge and practical competence that are desirable to train for and/or complete a first marathon or road race. Training, nutrition and physiology will be covered.

MENTAL PERFORMANCE IN SPORTS

PE 293 F 3 Credits
30 hours of lecture

Theories and strategies of mental preparation for improvement in individual and team performances. Discussion topics include: personality, motivational model, time management/goal setting techniques. Coach profiles, team communication, steps to team building, stress management and performance anxiety and imagery will also be covered. A review of current literature and the case analysis method will provide opportunity for individual and group application of presented materials.

SPORT IN SOCIETY

PE 294 W 3 Credits
30 hours of lecture

Explores the relationship, which exists between the multifaceted world of sport and society. Discussion topics include: racism, gender in equality, aggression, deviancy, media/commercialism, as well as youth sports. Discussion will also include the concept of play, competition and the rapid development of youth sport programs and their impact on the family unit.

PHYSICAL SCIENCE

GENERAL PHYSICAL SCIENCE

PHSC 101 F, W, Sp 5 Credits
40 hours of lecture 20 hours of lab

How the world around us behaves depends on the nature of matter and energy. Physical laws are presented in this course that describe the interaction of matter and energy. These laws are used to help explain experiences from daily life. For the non-science major, with little or no science background. Enrollment in PHSC 101L lab required.

GENERAL PHYSICAL SCIENCE

PHSC 102 F, W 5 Credits
40 hours of lecture 20 hours of lab

How matter reacts and its application in a technical society. Simple chemical molecules are discussed as are the origin, nature, and changing features of the earth. For non-science majors with little or no science background. No prerequisites are required.

OUR CHEMICAL WORLD

PHSC 106 Sp 3 Credits
30 hours of lecture

Introduction to basic chemical concepts and discussion of selected applications in the world around us.

COOPERATIVE WORK EXPERIENCE

PHSC 199 1-3 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

PHYSICS

APPLIED PHYSICS

PHYS 090 W 5 Credits
40 hours of lecture 20 hours of lab

Topics include force, motion, torque, energy, power, friction, electricity, magnetism, mechanical advantage, fluids, metric measurement, elasticity, heat, temperature, heat transfer, and heat engines. Open to all students seeking an Applied Science degree.

PHYSICS CALCULATIONS

PHYS 091 F 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 101 required.

PHYSICS CALCULATIONS

PHYS 092 W 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 102 required.

PHYSICS CALCULATIONS

PHYS 093 Sp 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 103 required.

PHYSICS CALCULATIONS

PHYS 094 F 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 201 required.

PHYSICS CALCULATIONS

PHYS 095 W 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 202 required.

PHYSICS CALCULATIONS

PHYS 096 Sp 1 Credit
10 hours of lecture

Methods of problem-solving in physics. Concurrent enrollment in PHYS 203 required.

GENERAL PHYSICS

PHYS 101 F 5 Credits
40 hours of lecture 30 hours of lab

Physical principles of motion, equilibrium, dynamics, gravity, work energy, momentum, and fluids. Recommended for students in medicine, dentistry, pharmacy, physical therapy, forestry and the life sciences. Part of a three-quarter sequence offered once each year beginning Fall quarter. Concurrent enrollment in PHYS 091 and 101 Lab required. Prerequisite: MATH 095 or equivalent.

GENERAL PHYSICS

PHYS 102 W 5 Credits
40 hours of lecture 20 hours of lab

Fundamental physical principles of sound, fluids, heat, thermodynamics, electricity, and magnetism. Second of a three-quarter sequence. Concurrent enrollment in PHYS 092 and 102 Lab required. Prerequisite: PHYS 101 or consent of Instructional Unit.

GENERAL PHYSICS

PHYS 103 Sp 5 Credits
40 hours of lecture 20 hours of lab

Topics in electricity, magnetism, atomic and nuclear physics, and optics. Third of a three-quarter sequence. Concurrent enrollment in PHYS 093 and 103 Lab required. Prerequisite: PHYS 102 or consent of Instructional Unit.

INTRODUCTION TO PHYSICS

PHYS 105 W, Sp 5 Credits
40 hours of lecture 20 hours of lab

Introduction to basic physics concepts for non-science majors, technical students, or students who desire a PHYS 101 or 201 preparatory course. Concurrent enrollment in PHYS 105 Conference and Lab required. Prerequisite: MATH 090 or equivalent.

COOPERATIVE WORK EXPERIENCE

PHYS 199 F, W, Sp 1-3 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

ENGINEERING PHYSICS

PHYS 201 F 5 Credits
40 hours of lecture 30 hours of lab

Classical physics topics in mechanics. For students majoring in engineering, chemistry, physics, geology or mathematics. Beginning course of a three-quarter sequence offered once each year starting F quarter. Concurrent enrollment in PHYS 094 and 201 Lab required and enrollment in MATH 211. Prerequisite: A grade of "C" or better in MATH 113 or consent of Instructional Unit.

ENGINEERING PHYSICS

PHYS 202 W 5 Credits
40 hours of lecture 20 hours of lab

Physics topics in fluids, heat, thermodynamics, sound, electricity, and magnetism. Second quarter of a three-quarter sequence beginning with PHYS 201. Concurrent enrollment in PHYS 095 and 202 Lab required. Prerequisite: A grade of "C" or better in PHYS 201.

ENGINEERING PHYSICS

PHYS 203 Sp 5 Credits
40 hours of lecture 20 hours of lab

Topics in electricity, magnetism, atomic and nuclear physics, and optics. Third quarter of a three-quarter sequence beginning with PHYS 201. Concurrent enrollment in PHYS 096 and 203 Lab required. Prerequisite: A grade of "C" or better in PHYS 202.

SPECIAL PROJECTS

PHYS 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

POLITICAL SCIENCE

AMERICAN NATIONAL GOVERNMENT AND POLITICS

POSC 111 F, W, Sp 5 Credits
50 hours of lecture

The institutions, structures, and processes that affect the course of politics and public policy at the national level of American government.

STATE AND LOCAL GOVERNMENT

POSC 131 Sp 5 Credits
50 hours of lecture

The institutions, structures, and political processes at the state and local levels of government in our federal system.

SURVEY OF STATE AND LOCAL GOVERNMENT

POSC 141 F 3 Credits
30 hours of lecture

The structure and operation of state and local government, stressing the politics and other processes involved in the making of public policy at these levels of government. Designed for paralegal students.

INTERNATIONAL ORGANIZATION

POSC 151 F, W, Sp 2 Credits
20 hours of lecture

The United Nations and its functions, current problems, and world reactions to them. Required for participation in the Model United Nations program. Entering students first register for 151, then subsequent sequence numbers for up to a total of 6 quarters.

INTERNATIONAL ORGANIZATION

POSC 152 F, W, Sp 2 Credits
20 hours of lecture

Continuation of POSC 151. Required for participation in Model United Nations activities.

INTERNATIONAL ORGANIZATION

POSC 153 F, W, Sp 2 Credits
20 hours of lecture

Continuation of POSC 152. Required for participation in Model United Nations activities.

WORLD WITHOUT WAR

POSC 161 Sp 3 Credits
30 hours of lecture

Seminar exploring psychological, emotional, political, economic, and other causes of war. Emphasis on search for peace and kinds of peace research currently being conducted in the world.

SURVEY OF THE UNITED STATES CONSTITUTION

POSC 171 Sp 3 Credits
30 hours of lecture

An examination of the role of the Constitution and judicial interpretation in American politics and public policy. Primary emphasis is on the United States Supreme Court. Specific topics will include civil rights, civil liberties, economic regulation and property rights, and criminal justice. Prerequisite: POSC 111 or SOC 110 or HIST 131.

INTERNATIONAL RELATIONS

POSC 211 Su, F, W, Sp 5 Credits
50 hours of lecture

World politics, concepts and theories from the post-World War II period. Processes of power, foreign policy, development and trends in the current international scene analyzed. Conflict and conflict resolution and control.

THE GEOPOLITICS OF THE MIDDLE EAST

POSC 220 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of the Middle East, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of the Middle East on the rest of the world, as well as the impact and influence of the rest of the world on the Middle East.

THE GEOPOLITICS OF AFRICA

POSC 221 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of Africa, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of Africa on the rest of the world, as well as examine the impact and influence of the rest of the world on Africa.

THE GEOPOLITICS OF CHINA, JAPAN AND EAST ASIA

POSC 222 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of China, Japan and East Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of China, Japan and East Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on China, Japan and East Asia.

THE GEOPOLITICS OF SOUTH AND CENTRAL ASIA

POSC 223 Su, Sp 5 Credits
50 hours of lecture

Geo-political survey of South and Central Asia, including interrelationships between the physical, economic and political geography of this region, the impact of geography on politics and political issues within the nations of this region, the corresponding impact of politics and political issues on geography and on the lives of the people living in this region, as well as the resulting diversity of cultures, beliefs, perceptions, challenges and issues among the people of this region. This course will also examine the importance and impact of South and Central Asia on the rest of the world, as well as examine the impact and influence of the rest of the world on South and Central Asia.

ENVIRONMENTAL POLITICS

POSC 231 Sp 5 Credits
50 hours of lecture

Examines the relationship between industrial civilization and the natural environment by exploring underlying ecological philosophies and the economic and political processes by which environmental decisions are made. Emphasis on critical thinking and evaluating alternative points of view. Prerequisite: POSC 111 or 211 or 131, or consent of Instructional Unit.

INTERNATIONAL ORGANIZATION

POSC 251 F, W, Sp 2 Credits
20 hours of lecture

Continuation of POSC 153. Required for participation in Model United Nations activities.

INTERNATIONAL ORGANIZATION

POSC 252 F, W, Sp 2 Credits
20 hours of lecture

Continuation of POSC 251. Required for participation in Model United Nations activities.

INTERNATIONAL ORGANIZATION

POSC 253 F, W, Sp 2 Credits
20 hours of lecture

Continuation of POSC 252. Required for participation in Model United Nations activities.

SELECTED TOPICS

POSC 280 Su, F, W, Sp 1-5 Credits
50 hours of lecture

This course focuses on selected topics in political science. Topics vary and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics.

SPECIAL PROJECTS

POSC 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

PSYCHOLOGY

GENERAL PSYCHOLOGY

PSYC 101 Su, F, W, Sp 5 Credits
50 hours of lecture

The scientific study of behavior and mental processes including research methods, psychobiological processes, learning, memory, psychological disorders, psychotherapy, and other topics to be determined by the instructor.

COOPERATIVE WORK EXPERIENCE

PSYC 199 Su, F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

SOCIAL PSYCHOLOGY

PSYC 203 5 Credits
50 hours of lecture

Effects of social environment and interpersonal processes on both individual and collective behaviors. Socialization, impression formation and management, attitude formation and change, prejudice, aggression, altruism, leadership, power, conformity, environmental psychology, and other topics. Prerequisite: PSYC 101.

HUMAN DEVELOPMENT

PSYC 211 Su, F, W, Sp 5 Credits
50 hours of lecture

Principles and theories of human growth and development; and the interaction of psychological, biological, and social factors throughout the life span.

PSYCHOLOGY: SELECTED TOPICS

PSYC 280 1-3 Credits
30 hours of lecture

Selected topics in psychology as listed in the quarterly class schedule. May be repeated for credit. Prerequisite: PSYC 101 and 102 or consent of Instructional Unit.

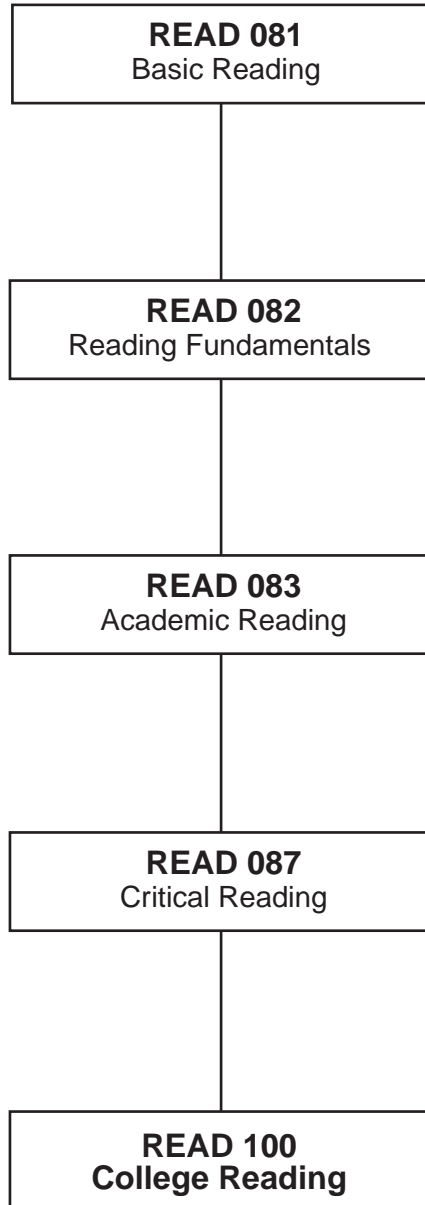
SPECIAL PROJECTS

PSYC 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Reading Sequence

Initial placement based upon a recommending score on a placement test



READING

BASIC READING

READ 081 F, W, Sp 4 Credits
40 hours of lecture

For students planning on continuing in higher education. Development of reading skills including vocabulary and overall comprehension. Prerequisite: Recommended score on placement test or written consent of Instructional Unit.

READING FUNDAMENTALS

READ 082 Su, F, W 4 Credits
40 hours of lecture

Improvement of academic reading skills through instruction and practice in Comprehension, Vocabulary building, retention strategies, textbook reading and notetaking skills along with an introduction to the basic elements for the development and enhancement of the enjoyment of reading. Prerequisite: Recommended score on placement test or written consent of Instructional Unit.

ACADEMIC READING

READ 083 Su, F, W, Sp 4 Credits
40 hours of lecture

Analysis and interpretation of textbooks, short stories and other sources; development of information-gathering, vocabulary and rate techniques, and use of graphs and charts. Prerequisite: Recommendation on placement test or written consent of Instructional Unit.

CRITICAL READING

READ 087 F, W, Sp 4 Credits
40 hours of lecture

Development of advanced comprehension skills such as recognizing the author's tone, interpreting figurative language, distinguishing fact and opinion, recognizing persuasive language, and evaluating the soundness of an argument. Prerequisite: Recommended score on placement test or written consent of Instructional Unit.

COLLEGE READING

READ 100 F, W, Sp 4 Credits
40 hours of lecture

Develops skills for more comprehensive and efficient college level reading. Emphasis is on the improvement of comprehension and reading rate, the development of good reading habits, critical and analytical skills, study-reading techniques, and vocabulary enhancements. Prerequisite: College reading level on placement test or recommendation of instructor.

SOCIOLOGY

GENERAL SOCIOLOGY

SOC 101 Su, F, W, Sp 5 Credits
50 hours of lecture

Sociological perspectives in explaining people and their behaviors in group situations. Examination of theories and concepts from both order and conflict approaches for a better understanding of social phenomena, social interactions and social structures in society.

SOCIAL PROBLEMS

SOC 102 W, Sp 3 Credits
30 hours of lecture

A sociological analysis of a variety of social problems in the U.S. examined from macro and micro theoretical approaches. These social problems affecting children, adolescence, middle age and the elderly will be examined in depth. Prerequisite: SOC 101.

SOCIOLOGY OF WORK AND OCCUPATIONS

SOC 103 W 3 Credits
30 hours of lecture

The role of social interaction, gender and diversity in the workplace will be examined. Fundamentals of sound structure and social class will be studied, as well as global impacts upon the changing occupations required for the future. Prerequisite: SOC 101.

INTRODUCTION TO CRIMINAL JUSTICE

SOC 110 F, W 5 Credits
50 hours of lecture

Philosophy and history of criminal justice. Interrelations of police, courts, and corrections. Career opportunities and required qualifications.

CRIME AND DEVIANCE

SOC 111 F, Sp 5 Credits
50 hours of lecture

An introductory examination of crime, deviant behavior and social control. Crime and deviance as social processes; historical and contemporary explanations of criminological theory. Prerequisite: SOC 101.

INTRODUCTION TO CORRECTIONS

SOC 112 W 3 Credits
30 hours of lecture

An overview of local, state and federal correctional agencies. The historical development of correctional policies and practices. The exploration of debates surrounding the role and effectiveness of criminal sentences, institutional procedures, technological developments, special populations, etc.

MARRIAGE AND FAMILY EXPERIENCES IN THE U.S.

SOC 121 W 3 Credits
30 hours of lecture

Marriage and family experiences will be examined along with other social institutions that effect the marriage and family relationships in a changing U.S. culture.

RACE AND ETHNICITY IN THE U.S.

SOC 131 Sp 3 Credits
30 hours of lecture

The sociological perspectives of race and ethnicity, including an examination of prejudice and discrimination from the interpersonal to the institutional level. Application of concepts and theories to both historical and current events in the U.S.

COOPERATIVE WORK EXPERIENCE

SOC 199 F, W, Sp 1-5 Credits

Supervised work experience in an approved job. Completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment HDEV 195, 198 or 200 required. Prerequisite: Consent of Instructional Unit.

MEN AND WOMEN IN AMERICAN SOCIETY

SOC 211 F 3 Credits
30 hours of lecture

Exploration of sex and gender as they are reflected in the lives of American men and women. Biological, psychological, sociological, and anthropological perspectives.

THE CRIME VICTIM

SOC 212 F, W 3 Credits
30 hours of lecture

An examination of crime and criminal victimization in the U.S. Particular attention will be paid to the interaction between the crime victim and criminal justice agencies, the media, private industry and social organizations. Prerequisite: SOC 101.

DEATH AND DYING

SOC 220 3 Credits
30 hours of lecture

A comprehensive survey of death, dying, bereavement, and other losses and their societal impacts upon people. Various cultural attitudes, traditions and changing values surrounding death and dying will be explored.

DOMESTIC VIOLENCE

SOC 230 Sp 5 Credits
50 hours of lecture

Introducing historical and current ideas, myths and empirical research regarding domestic partner abuse. Defining abuse and examining cultural, social, family and psychological factors associated with offenders and victims: why, how, who, and what responses have been tried. Prerequisite: SOC 101 or PSYC 101.

SOCIOLOGY: SELECTED TOPICS

SOC 280 F, W, Sp 1-5 Credits
50 hours of lecture

Varying topics in Sociology as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

SOC 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

SPANISH

FIRST-YEAR SPANISH

SPAN 101 F, W, Sp 5 Credits
50 hours of lecture

First of a three-quarter sequence in elementary Spanish. Emphasis on listening/speaking skills, with additional practice in reading/writing. Course intended for students with little or no previous experience in studying Spanish.

FIRST-YEAR SPANISH

SPAN 102 F, W, Sp 5 Credits
50 hours of lecture

Continuation of the elementary Spanish sequence. Prerequisite: SPAN 101 or equivalent, or S-CAPE placement test recommended.

FIRST-YEAR SPANISH

SPAN 103 F, W, Sp 5 Credits
50 hours of lecture

Conclusion of the three-quarter sequence in elementary Spanish. Prerequisite: SPAN 102 or equivalent, or S-CAPE placement test recommended.

CONVERSATIONAL SPANISH

SPAN 121 Sp 3 Credits
30 hours of lecture

Intensive practice in Spanish conversation. Discussion in small groups of contemporary topics common to American and Hispanic societies. Prerequisite: SPAN 102 or equivalent.

SECOND-YEAR SPANISH

SPAN 201 F, W, Sp 3 Credits
30 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture; intensive grammar review and composition practice. Prerequisite: SPAN 103 or equivalent, or S-CAPE placement test recommended.

SECOND-YEAR SPANISH

SPAN 202 F, W, Sp 3 Credits
30 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture; intensive grammar review and composition practice. Prerequisite: SPAN 201 or equivalent.

SECOND-YEAR SPANISH

SPAN 203 F, W, Sp 3 Credits
30 hours of lecture

Discussion in Spanish of topics from Hispanic civilization and culture; intensive grammar review and composition practice. Prerequisite: SPAN 202 or equivalent.

SPANISH STUDIES

SPAN 204 F, W, Sp 2 Credits
20 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit.

SPANISH STUDIES

SPAN 205 F, W, Sp 2 Credits
20 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit.

SPANISH STUDIES

SPAN 206 F, W, Sp 2 Credits
20 hours of lecture

Student and instructor determine area of study from the following: literature, civilization and culture, or advanced Spanish composition and conversation. Prerequisite: Consent of Instructional Unit.

SELECTED TOPICS

SPAN 280 F, W, Sp 1-5 Credits
50 hours of lecture

Selected topics in Spanish. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit.

SPECIAL PROJECTS

SPAN 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

SPEECH

ORAL COMMUNICATION

SPEE 101 Su, F, W, Sp 3 Credits
30 hours of lecture

Introduction to speechmaking based primarily on a traditional public speaking approach. Aids students in developing theoretical understanding and practical application of oral communication skills. Techniques in controlling speech anxiety, how to structure and organize information to present to a variety of audiences; and, physical and vocal delivery skills.

MASS COMMUNICATION AND SOCIETY

SPEE 120 3 Credits
30 hours of lecture

Survey of major communication media, print through satellite, their primary functions and social impact.

SPEECH/DEBATE TEAM

SPEE 171 F 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on debate/persuasive speaking, attention given to other forms of speech events and tournament management. Prerequisite: SPEE 101 or consent of Instructional Unit.

SPEECH/DEBATE TEAM

SPEE 172 W 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on informative speaking and interpretive reading. Attention given to debate and other forms of speech events. Prerequisite: SPEE 101 or consent of Instructional Unit.

SPEECH/DEBATE TEAM

SPEE 173 Sp 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis on audience analysis and other forms of forensics activities. Prerequisite: SPEE 101 or consent of Instructional Unit.

SMALL GROUP COMMUNICATION

SPEE 201 Su, F, W, Sp 3 Credits
30 hours of lecture

Small group communication emphasizing theoretical principles and their application. Because there is an increasing use of group communication in the work place, as well as our social lives, it is important to understand the principles of small group communication so that we are able to function more effectively in groups. This course will enable students to become more comfortable and competent participants in the group communication process. Emphasis will be on the study and application of the dynamics of group development, problem solving methodologies, and the use of power, including leadership and conflict.

INTERPERSONAL COMMUNICATION

SPEE 211 Su, F, W, Sp 3 Credits
30 hours of lecture

Person-to-person communication emphasizing theoretical principles and their application. How self-concept, perception, verbal and non-verbal attributes and attitudes influence communication within the family, between friends, and at work.

ORAL COMMUNICATION IN BUSINESS

SPEE 212 3 Credits
30 hours of lecture

Principles and practices of speech communication at work. Face-to-face and person-to-group interactions common to organizations and work settings. Same as MGMT 108.

CROSS-CULTURAL COMMUNICATION

SPEE 216 3 Credits
30 hours of lecture

Examination of the impact of culture on communication. Analysis of patterns of communication which affect the ability to establish clear understanding and effective interpersonal relationships. Skills to improve communication across cultural boundaries.

INTRODUCTION TO PERSUASION THEORY

SPEE 220 5 Credits
50 hours of lecture

A survey of the evaluation of the concepts and techniques of persuasive public address, from the early Greek period through contemporary theorists. A non-public speaking course with the emphasis and focus on the understanding and analysis of persuasive oral discourse.

THEATRE

SPEECH/DEBATE TEAM

SPEE 271 F 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and independent studies in debate and persuasive speaking. Attention given to style. Students will manage the Clark College forensics tournament. Prerequisite: SPEE 171, 172 or 173 or consent of Instructional Unit.

SPEECH/DEBATE TEAM

SPEE 272 W 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Emphasis given to advanced and independent studies in informative speaking and interpretive reading. Attention given to style. Prerequisite: SPEE 171, 172, 173, or 271 or consent of Instructional Unit.

SPEECH/DEBATE TEAM

SPEE 273 Sp 3 Credits
30 hours of lecture

For students interested in intercollegiate speech/debate competition. Attention given to advanced and independent audience analysis and other forensics activities. Prerequisite: SPEE 171, 172, 173, 271, or 272 or consent of Instructional Unit.

SELECTED TOPICS

SPEE 280 F, W, Sp 1-5 Credits
50 hours of lecture

The course focuses on selected topics in Speech. Topics vary, and course theme and content change to reflect new topics. Because the course varies in content, it is repeatable for credit for different topics. Individual topics are listed in the quarterly class schedule.

SPECIAL PROJECTS

SPEE 290 F, W, Sp 1-5 Credits
Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

THEATRE APPRECIATION

THEA 105 F, W, Sp 3 Credits
30 hours of lecture

Overview of theatre. Roles of the actor, director, designers, and playwrights. Evolution of theatre through the ages.

ACTING I - THEATRE

THEA 140 F, W 4 Credits
30 hours of lecture 20 hours of lab
Techniques and principles of acting.

ACTING II - THEATRE

THEA 141 W 4 Credits
30 hours of lecture 20 hours of lab
Continuation of THEA 140. Emphasis on scene study, characterization, and period styles of acting. Prerequisite: THEA 140.

ACTING III - TELEVISION

THEA 142 W, Sp 3 Credits
20 hours of lecture 20 hours of lab
Techniques for television and film performance. Basic production realities relevant to actors. Students will perform before the cameras and, when possible, work behind them.

CHILDREN'S THEATRE

THEA 143 Sp 5 Credits
20 hours of lecture 60 hours of lab
College students performing for children. Examine, produce, perform, and tour a play for children. Performances styles for children, touring scenery techniques, and tour management.

CHILDREN'S THEATRE

THEA 144 Sp 5 Credits
20 hours of lecture 60 hours of lab
College students performing for children. Examine, produce, perform, and tour a play for children. Performance styles for children, touring scenery techniques, and tour management. Prerequisite: THEA 143.

CHILDREN'S THEATRE

THEA 145 Sp 5 Credits
20 hours of lecture 60 hours of lab
College students performing for children. Examine, produce, perform, and tour a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: THEA 144.

BASIC STAGECRAFT

THEA 150 F 4 Credits
20 hours of lecture 20 hours of lab
Principles and techniques of scenery construction and painting. Students will also learn the use of shop tools.

STAGE MAKE-UP

THEA 152 W 3 Credits
30 hours of lecture

Design and application of stage make-up.

PLAY PRODUCTION AND PERFORMANCE I

THEA 171 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter.

PLAY PRODUCTION AND PERFORMANCE II

THEA 172 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: THEA 171.

PLAY PRODUCTION AND PERFORMANCE III

THEA 173 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: THEA 172.

COOPERATIVE WORK EXPERIENCE

THEA 199 F, W, Sp 1-5 Credits

Supervised work experience in the community, completion of specific learning objectives and employer evaluation. Completion of, or concurrent enrollment in, HDEV 195, 198, or 200 required. Prerequisite: Consent of Instructional Unit.

CHILDREN'S THEATRE II

THEA 243 Sp 5 Credits
20 hours of lecture 60 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: THEA 145.

CHILDREN'S THEATRE II

THEA 244 Sp 5 Credits
20 hours of lecture 60 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: THEA 243.

CHILDREN'S THEATRE II

THEA 245 Sp 5 Credits
20 hours of lecture 60 hours of lab

Study, produce and perform a play for children. Performance styles for children, touring scenery techniques and tour management. Prerequisite: THEA 244.

STAGE LIGHTING DESIGN

THEA 250 Sp 3 Credits
30 hours of lecture

Techniques and principles of stage and TV lighting design. Use of instruments and light control systems with a special emphasis on computerized light control.

PLAY PRODUCTION AND PERFORMANCE IV

THEA 271 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: THEA 173.

PLAY PRODUCTION AND PERFORMANCE V

THEA 272 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: THEA 271.

PLAY PRODUCTION AND PERFORMANCE VI

THEA 273 F, W, Sp 2 Credits
40 hours of lab

Practical experience with varied aspects of actual theatrical production. Acting, directing, scene construction, lighting, makeup and publicity. Class will begin the third week of the quarter. Prerequisite: THEA 272.

SELECTED TOPICS

THEA 280 Su 1-3 Credits
30 hours of lecture

Varying topics in theatre, as listed in the quarterly class schedule. May be repeated for credit.

SPECIAL PROJECTS

THEA 290 F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department in the areas of stage direction, scene lighting, costume design, make-up design, production or theatre history. Prerequisite: Consent of Instructional Unit.

TUTORING

TUTORING

TUTR 185 Su, F, W, Sp 1-3 Credits
Introduction to methods and techniques in tutoring.
Tutoring training assignments in various disciplines.

TUTORING-WRITING

TUTR 186 Su, F, W, Sp 1-3 Credits
Introduction to strategies for effectively tutoring writers at all stages of the writing process and experience working one-on-one with writing across the disciplines.

WELDING

WELDING FABRICATION

WELD 056 1-2 Credits
40 hours of lab

Opportunity for students to organize and complete projects. Also to complete welder certification. Concurrent enrollment in the welding program or journeyman level. Prerequisite: Consent of Instructional Unit.

RELATED WELDING FOR DIESEL

WELD 101 F 6 Credits
30 hours of lecture 60 hours of lab

Instruction and practice in related welding for students enrolled in the Diesel Technology program. Oxy-acetylene and electric arc welding processes will be covered.

RELATED WELDING FOR MACHINING

WELD 103 W 6 Credits
30 hours of lecture 60 hours of lab

Instruction and practice in related welding for students enrolled in the Machining Technology program. Oxy-acetylene and electric arc welding processes will be covered.

RELATED WELDING FOR AUTOMOTIVE

WELD 105 Sp 3 Credits
20 hours of lecture 20 hours of lab

Instruction and practice in related welding for students enrolled in the Automotive Technology program. Oxy-acetylene and gas metal arc welding processes will be covered.

WELDING BLUEPRINT READING

WELD 110 Sp 4 Credits
40 hours of lecture

Interpretation of welding blueprints, welding symbols, tolerances and structural shapes.

INTRODUCTION TO WELDING INDUSTRY

WELD 111 F, W, Sp 3 Credits
30 hours of lecture

Welding and shop safety, oxy-fuel theory (fusion, welding, braze welding, brazing, flame cutting), shielded metal arc welding, filler metal identification, joint design, welding codes and specifications. Concurrent enrollment in WELD 112 required.

OXY-ACETYLENE AND SHIELDED METAL ARC LAB

WELD 112 F, W, Sp 10 Credits
50 hours of lecture 100 hours of lab

Shop practice in concepts and topics covered in WELD 111 including three weeks of oxy-fuel applications and cutting, and seven weeks of shielded metal arc using E6010/E6011 electrode, and related processes. Concurrent enrollment in WELD 111 required.

SHIELDED METAL ARC WELDING THEORY I

WELD 113 F, W, Sp 3 Credits
30 hours of lecture

Welding and shop safety, S.M.A.W. power sources, and basic metallurgy. Weld evaluation and quality control, destructive and non-destructive testing and metal removal processes.

SHIELDED METAL ARC WELDING LAB I

WELD 114 F, W, Sp 10 Credits
50 hours of lecture 100 hours of lab

Application of concepts and topics covered in WELD 113. Ten weeks shielded metal arc welding using E7018 electrode in all positions, and related processes. Concurrent enrollment in WELD 113 required.

SHIELDED METAL ARC WELDING THEORY II

WELD 115 F, W, Sp 3 Credits
30 hours of lecture

Welding fabrication, pipe welding, repair and maintenance welding, and special welding processes using shielded metal arc, and oxy-fuel processes.

SHIELDED METAL ARC WELDING LAB II

WELD 116 F, W, Sp 10 Credits
50 hours of lecture 100 hours of lab

Application of concepts and topics covered in WELD 115 to do a variety of projects covering fabrication and repair. Concurrent enrollment in WELD 115 required.

ARC/OXY FUEL WELDING

WELD 117 F 6 Credits
30 hours of lecture 60 hours of lab

Welding theory and practical applications in the use of oxy-fuel equipment and shielded metal arc welding (stick). Designed for beginners to intermediate welders.

WIRE FEED AND TIG WELDING I

WELD 118 W, Sp 6 Credits
30 hours of lecture 60 hours of lab

Welding theory and practical applications in the use of the Wire Feed Welding process and use of the TIG Welding process. Designed for beginners to intermediate welders.

WIRE FEED AND TIG WELDING II

WELD 119 W, Sp 6 Credits
30 hours of lecture 60 hours of lab

Welding theory and practical applications in the use of the Wire Feed process and use of the TIG Welding process. Designed for intermediate to advanced welders.

WELDED SCULPTURE LAB I

WELD 120 F, W, Sp 3 Credits
60 hours of lab

Development of a rudimentary expressive design language using welded metal as a medium. Exploration of beginning welding and metal-working skills. Concurrent enrollment in ART 295 required.

WELDING SCULPTURE LAB II

WELD 121 F, W, Sp 3 Credits
60 hours of lab

Three dimensional design problems are explored while creating a welded metal sculpture. Gas metal arc welding and plasma arc cutting are introduced. Use of hydraulic power equipment and metal cut-off equipment is covered. Concurrent enrollment in ART 296 required.

WELDED SCULPTURE LAB III

WELD 122 F, W, Sp 3 Credits
60 hours of lab

A fabricated welded metal sculpture is created while learning advanced metal working skills. The gas tungsten arc welding process and resistance welding are covered. Concurrent enrollment in ART 297 required.

GAS TUNGSTEN ARC WELDING

WELD 221 F 3 Credits
30 hours of lecture

Tungsten inert gas welding of ferrous and non-ferrous metals. Study of the various types of shielding gases and filler metals.

GAS TUNGSTEN ARC WELDING LAB

WELD 222 F 10 Credits
50 hours of lecture 100 hours of lab

Application of concepts and topics covered in WELD 221. Concurrent enrollment in WELD 221 required.

SEMI-AUTOMATIC WELDING

WELD 223 W, Sp 3 Credits
30 hours of lecture

Semi-automatic production welding of ferrous and non-ferrous metals. Short arc, flux core and spray arc welding processes. Effect of various shielding gases and filler metals.

SEMI-AUTOMATIC WELDING LAB

WELD 224 W, Sp 10 Credits
50 hours of lecture 100 hours of lab

Application of concepts and topics covered in WELD 223. Concurrent enrollment in WELD 223 required.

SPECIAL WELDING PROCESSES

WELD 225 Sp 3 Credits
30 hours of lecture

Submerged arc, resistance, welder certification, weld procedures, GMAW pulse arc, non-ferrous metals. Concurrent enrollment in WELD 226 required.

PRODUCTION WELDING PROCESSES

WELD 226 Sp 10 Credits
50 hours of lecture 100 hours of lab

Application of concepts and topics covered in WELD 225. Concurrent enrollment in WELD 225 required.

ELEMENTARY METALLURGY

WELD 235 F, W 2 Credits
20 hours of lecture

Physical metallurgy oriented towards the metal working trades, ferrous and non-ferrous metals, manufacturing methods, material classification and identification, thermal processing, and joining. Concurrent enrollment in WELD 236 required.

ELEMENTARY METALLURGY LAB

WELD 236 F, W 2 Credits
40 hours of lab

Application of physical metallurgy oriented towards the metal working trades, ferrous and non-ferrous metals, manufacturing methods, material classification and identification, thermal processing, and joining. Concurrent enrollment in WELD 235 required.

SELECTED TOPICS

WELD 280 Su, F, W, Sp 1-6 Credits
60 hours of lecture

Selected topics in Welding as listed in the quarterly class schedule. Repeatable for credit.

SPECIAL PROJECTS

WELD 290 F, W, Sp 1-5 Credits

Projects assigned according to needs and abilities of the student. Hours arranged with instructor. Maximum of 15 credits allowed toward a certificate or degree. Prerequisite: Consent of Instructional Unit required.

WOMEN'S STUDIES

INTRODUCTION TO WOMEN'S STUDIES

WS 101 Su, F, W, Sp 5 Credits
50 hours of lecture

Essential issues of feminism and the effects on women's lives. Topics include socialization, working lives of women, historical movements, political and economic status cross-culturally, health concerns, and women in the arts. Discussion, lecture, films, readings, and special projects. Fulfills either humanities or social science distribution requirements for the Associate degree.

WOMEN AROUND THE WORLD

WS 201 Sp 3 Credits
30 hours of lecture

Study of current issues affecting women. International feminism, reproductive rights, women in leadership, and affirmative action from a cross-cultural perspective. Fulfills either humanities or social science distribution requirements for the associate degree.

INTRODUCTION TO FEMINIST THEORY

WS 202 W 3 Credits
30 hours of lecture

Examination of some major Western political and social theories of the past two centuries to see how they explained and proposed to end gender inequality in society. Reaching back to the foundations of liberal, socialist, and radical feminism, and exploring the 20th century development of multiculturalism and postmodernism, students will begin to appreciate the ways that theory informs choices and they will be better equipped to become active change agents in their world. Prerequisite: WS 101.

WOMEN'S CULTURE

WS 210 3 Credits
30 hours of lecture

A study of the arts from a variety of cultures, with emphasis on the roles and images of women in music and mythology from prehistoric times to the present, and the historical events and sociological factors influencing those roles and images. Fulfills either humanities or social science distribution requirements for the associate degree.

SELECTED TOPICS

WS 280 W, Sp 1-3 Credits
30 hours of lecture

This course focuses on selected topics in women's studies. Topics vary and course theme and content change to reflect new topics. This course may be repeated for credit.

SPECIAL PROJECTS

WS 290 Su, F, W, Sp 1-5 Credits

Opportunity to plan, organize and complete special projects approved by the department. Prerequisite: Consent of Instructional Unit.

Penguin Tales



Elizabeth Palma

The road to Clark College began in Nicaragua for Elizabeth Palma. She came to the U.S. at the age of 11 and moved to Vancouver with her husband in 1998. "It's the best decision that we have made for a better future for us and our two boys," says Elizabeth. The move translated into a great job for her husband and the beginning of a rewarding educational path.

While pursuing a transfer degree in Business Administration, Elizabeth has been an active member of the campus community. As a peer mentor, she has focused on helping ESL students. She takes her role seriously and, having once been in their position, can relate to their needs, "I know the great importance of a positive influence, without one I would not be here today," she says. As a member of the Amigos Club, she has worked to bring awareness of Latino culture to Clark. She helped coordinate the Latino Festival, a celebration of music, food and history.

Elizabeth plans to continue her studies at Washington State University Vancouver, where she will major in Accounting. "My long term goal is to become a C.P.A. and be able to run all the finances for my own business," says Elizabeth.