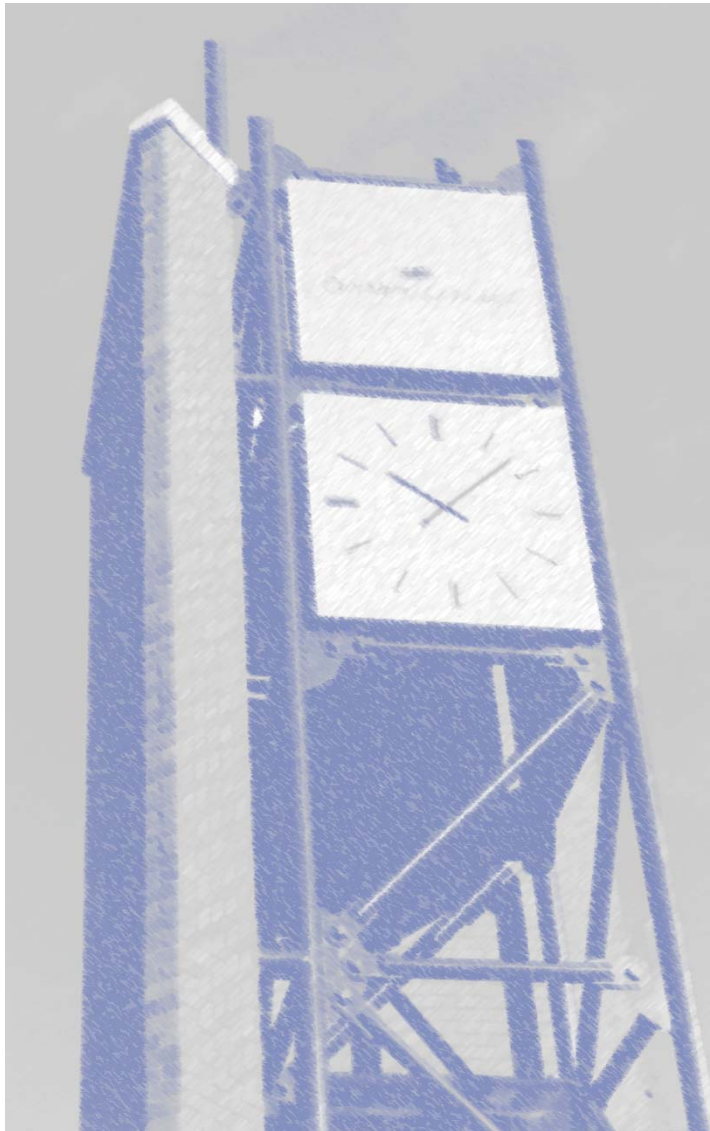




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# 7 - Course Descriptions

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## ADMINISTRATION OF JUSTICE

### A-JUS 101—INTRODUCTION TO LAW ENFORCEMENT

Cr: 5 Wkly hrs: 5 hours Lecture

The historical development of administration of justice with emphasis on the organization and jurisdiction of local, state, and federal police agencies.

### A-JUS 102—CRIMINAL LAW

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. The purpose, functions, and elements necessary to establish crime and criminal intent. Basic concepts of Washington criminal law, including a study of crimes and punishment.

### A-JUS 103—ADMINISTRATION OF JUSTICE

Cr: 5 Wkly hrs: 5 hours Lecture

Study of the processes of criminal justice and procedures of the local, state, and federal courts, their organization and jurisdiction.

### A-JUS 104—POLICE ORGANIZATION/ADMINISTRATION

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. An analysis of the functional structuring of police departments, including the application of police organization and administration principles.

### A-JUS 106—JUVENILE DELINQUENCY AND JUSTICE

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: Either A-JUS 101 or A-JUS 103. The causation, apprehension, commitment, and treatment of juvenile delinquents including methods of caring for delinquents using basic sociological theories. (Same as SOCIO 106)

### A-JUS 115—INTRODUCTION TO CORRECTIONS

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. A study of the corrections process, its history, procedures treatment and effects, how corrections affects the community, inmates, and correctional officers.

### A-JUS 116—POLICE COMMUNITY RELATIONS

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: Either A-JUS 101 or A-JUS 103. The study of human relations between the police officer, the public, and the administration of justice, including courtesy/human relations with minority groups.

### A-JUS 124—INTRODUCTION TO CRIMINOLOGY

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. History of theories of criminal behavior, the development of criminology as a body of knowledge, causes, and consequences of crime.

### A-JUS 195—INDEPENDENT STUDY

Can be offered as: A-JUS 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

### A-JUS 199—PRACTICUM

Can be offered as: A-JUS 199/299.

Cr: 1-5 Wkly hrs: 10 hours Lab

A practical application in the working world of the basic theories studied in the above program or discipline.

### A-JUS 201—PRINCIPLES OF INVESTIGATION

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. The study of criminal investigations with emphasis on communications, sources of information, interview techniques, court presentations, individual rights, recent Supreme Court decisions.

### A-JUS 251—POLICE LINE OPERATIONS

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. An analysis of the nature and purposes of law enforcement line operations including the functions of the patrol, traffic, and criminal investigation units.

### A-JUS 253—APPLIED PSYCHOLOGY/CRIMINAL JUSTICE

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: A-JUS 101 or A-JUS 103. Personality and behavior makeup applied to human deviations in the individual and dealing effectively with normal and abnormal human behavior.

## ADULT EDUCATION— ADULT BASIC EDUCATION

### ADABE 006—BASIC COMPUTER SKILLS

Cr: 1-2 Wkly hrs: 2 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course introduces students to the computer skills needed for success in the college, family, and workplace. (Formerly AD-ED 006)

### ADABE 007—INTERMEDIATE COMPUTER SKILLS

Cr: 1-2 Wkly hrs: 2 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course builds on the basic computer skills needed for success in the college, family, and workplace. (Formerly AD-ED 006)

### ADABE 009—ORIENTATION TO ADULT ED

Cr: 1-2 Wkly hrs: 2 hours Lecture

Prerequisite: Required for all new students in ABE/GED classes. This course introduces students to the Adult Education Program and Olympic College, helps them to set goals and make an educational plan, and helps them learn to use available resources and assess their own progress toward their goals. The course may be taken twice each year of participation in the program. (Pass/No Credit) (Formerly AD-ED 009)

### ADABE 011—BASIC SKILLS FOR THE WORKPLACE

Cr: 1-7 Wkly hrs: 7 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course prepares students for entry-level job search and employment.

### ADABE 015—FAMILY MANAGEMENT

Cr: 1-4 Wkly hrs: 4 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course, open to students in family literacy programs, facilitates the development of family management and parenting skills. (Formerly AD-ED 034)

### ADABE 021—LIFE LEARNING SKILLS

Cr: 1-2 Wkly hrs: 4 hours Lab

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course helps developmentally disabled students learn to function successfully in the family, workplace, and community.

### ADABE 022—LIFE LEARNING MATH

Cr: 1-2 Wkly hrs: 4 hours Lab

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course helps developmentally disabled students learn to function successfully in the family, workplace, and community.

### ADABE 032—MATH 1

Cr: 1-5 Wkly hrs: 5 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course can use whole numbers in counting, computation, and communication, and can meet basic expectations around classroom behavior and study skills. (Pass/No Credit) (Formerly AD-ED 040)

### ADABE 033—FAMILY COMMUNICATION 1

Cr: 1-6 Wkly hrs: 6 hours Lecture

Prerequisite: Enrollment in Families That Work family literacy programs and placement by program faculty or staff. Students in this course begin to develop basic reading, writing, and oral communication skills. (Pass/No Credit)

### ADABE 034—FAMILY MATH 1

Cr: 1-6 Wkly hrs: 6 hours Lecture

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use basic whole number skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

### ADABE 041—COMMUNICATION SKILLS 2

Cr: 1-6 Wkly hrs: 6 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course can read for literal comprehension, find and interpret information from common references, write several related sentences, and use a computer for routine tasks. (Pass/No Credit) (Formerly AD-ED 021 and AD-ED 031)

### ADABE 042—MATH 2

Cr: 1-5 Wkly hrs: 5 hours Lecture

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to see how math applies to their roles as family members, workers, and community members; solve problems using whole numbers; and employ time management and goal-setting skills to make progress toward goals. (Pass/No Credit) (Formerly AD-ED 041)

### ADABE 043—FAMILY COMMUNICATION 2

Cr: 1-6 Wkly hrs: 6 hours Lecture

Prerequisite: Enrollment in Families That Work family literacy programs and placement by program faculty or staff. Students in this course begin to make progress toward effectively using communication skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 044—FAMILY MATH 2****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use arithmetic skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 051—COMMUNICATION SKILLS 3****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course can identify their goals, define and support a reading purpose, write clear narratives of a paragraph or more, and use a computer to perform routine tasks. (Pass/No Credit) (Formerly AD-ED 022 and AD-ED 032)

**ADABE 052—MATH 3****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use math involving whole numbers, decimals, and fractions to solve problems in the contexts of family, work, and community. (Pass/No Credit) (Formerly AD-ED 042)

**ADABE 053—FAMILY COMMUNICATION 3****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Families That Work family literacy programs and placement by program faculty or staff. Students in this course make progress toward effectively using communication skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 054—FAMILY MATH 3****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use arithmetic skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 061—COMMUNICATION SKILLS 4****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to define and revise strategies and timelines for meeting goals, use reading and writing skills in personally relevant contexts, and use computers to find information and perform routine tasks. (Pass/No Credit) (Formerly AD-ED 023 and AD-ED 033)

**ADABE 062—MATH 4****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use math and problem-solving skills involving whole numbers, fractions, decimals, percents, ratio and proportion, perimeter, area, volume, simple interest, and charts, graphs, and tables. Students will be able to use skills in the contexts of family, work, and community. (Pass/No Credit) (Formerly AD-ED 043)

**ADABE 063—FAMILY COMMUNICATION 4****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Families That Work family literacy programs and placement by program faculty or staff. Students in this course make progress toward effectively using communication skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 064—FAMILY MATH 4****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use arithmetic skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 071—COMMUNICATION SKILLS 5****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use communication skills to meet personal goals, use resources to collect and interpret information, and use a computer for work and college tasks. (Pass/No Credit) (Formerly AD-ED 026 and AD-ED 035)

**ADABE 072—MATH 5****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use math, problem-solving, and reading skills to structure and solve problems involving math at levels up to introductory algebra and geometry. Students will be able to use skills to achieve target scores on standardized tests such as the ASSET and GED. (Pass/No Credit) (Formerly AD-ED 044)

**ADABE 073—FAMILY COMMUNICATION 5****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students in this course make progress toward effectively using communication skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 074—FAMILY MATH 5****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use arithmetic skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 079—GED PREPARATION****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course helps students to develop the reading, writing, and math skills necessary for completion of the five tests of the GED. (Formerly AD-ED 070)

**ADABE 081—COMMUNICATION SKILLS 6****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use communication skills to meet personal goals, use resources to collect and interpret information, and use a computer for work and college tasks. (Pass/No Credit) (Formerly AD-ED 026 and AD-ED 035)

**ADABE 082—MATH 6****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor. Students who complete this course will be able to use math, problem-solving, and reading skills to structure and solve problems involving math at levels up to introductory algebra and geometry. Students will be able to use skills to achieve target scores on standardized tests such as the ASSET and GED. (Pass/No Credit) (Formerly AD-ED 044)

**ADABE 083—FAMILY COMMUNICATION 6****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use communication skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 084—FAMILY MATH 6****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Enrollment in Even Start or Families That Work family literacy programs and placement by program faculty or staff. Students who complete this course will be able to use math skills in the contexts of family, work, and community, with an emphasis on parenting and family leadership. (Pass/No Credit)

**ADABE 089—PRE-COLLEGE SKILLS****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course helps students to develop the reading, writing, and math skills necessary for completion of the five tests of the GED. (Formerly AD-ED 070)

## ADULT EDUCATION— ENGLISH SECOND LANGUAGE

**ADESL 006—BASIC COMPUTER SKILLS/ESL****Cr: 1-2 Wkly hrs: 2 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course introduces ESL students to the computer skills needed for success in the college, family, and workplace. (Formerly AD-ED 006)

**ADESL 007—INTERMEDIATE COMPUTER SKILLS/ESL****Cr: 1-2 Wkly hrs: 2 hours Lecture**

Prerequisite: Orientation/Placement or permission of instructor/educational planner. This course builds on the basic computer skills needed for success in the college, family, and workplace. (Formerly AD-ED 006)

**ADESL 009—ORIENTATION TO ESL****Cr: 1-2 Wkly hrs: 2 hours Lecture**

Prerequisite: Required for all new students in ESL classes. This course introduces students to the ESL program and Olympic College, helps them to set goals and make an educational plan, and helps them learn to use available resources and assess their own progress toward their goals. This course may be taken twice each year of participation in the program. (Pass/No Credit) (Formerly AD-ED 009)

**ADESL 020—CITIZENSHIP PREPARATION****Cr: 1-3 Wkly hrs: 3 hours Lecture**

Prerequisite: Must have completed ADESL 030 and ADESL 031 or tested out. This course prepares students to take the citizenship exam. It is open to all students who are interested in learning about the citizenship process, whether or not they are ready for the exam in terms of residency requirements. (Formerly AD-ED 036)

**ADESL 030—ESL 1: SPEAKING/LISTENING****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to introduce students to basic survival English. It is designed for students who are true language beginners. (Formerly part of AD-ED 051)

**ADESL 031—ESL 1: READING/Writing****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to introduce students to basic survival English. It is designed for students who are true language beginners. (Formerly part of AD-ED 051)

**ADESL 040—ESL 2: SPEAKING/LISTENING****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond basic survival English. It is designed for students who are low language beginners. (Formerly part of AD-ED 052)

**ADESL 041—ESL 2: READING/Writing****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond basic survival English. It is designed for students who are low language beginners. (Formerly part of AD-ED 052.)

**ADESL 050—ESL 3: SPEAKING/LISTENING****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond basic survival English. It is designed for students who are at a low-intermediate level of language learning. (Formerly part of AD-ED 053.)

**ADESL 051—ESL 3: READING/Writing****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond basic survival English. It is designed for students who are at a low-intermediate level of language learning. (Formerly part of AD-ED 053)

**ADESL 060—ESL 4: SPEAKING/LISTENING****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond intermediate English. It is designed for students who are at a high-intermediate/low-advanced level of language learning. (Formerly part of AD-ED 054)

**ADESL 061—ESL 4: READING/Writing****Cr: 1-5 Wkly hrs: 5 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to build upon language skills beyond intermediate English. It is designed for students who are at a high-intermediate/low-advanced level of language learning. (Formerly part of AD-ED 054.)

**ADESL 070—ESL 5 ACADEMIC BRIDGE: SPEAK/LISTEN****Cr: 1-7 Wkly hrs: 7 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to introduce students to the linguistic, cultural and study skills necessary for matriculating into credit classes at a community college. (Formerly part of AD-ED 054)

**ADESL 071—ESL 5 ACADEMIC BRIDGE: READ/WRITE****Cr: 1-7 Wkly hrs: 7 hours Lecture**

Prerequisite: Orientation/assessment or permission of instructor. The aim of this course is to introduce students to the linguistic, cultural and study skills necessary for matriculating into credit classes at a community college. (Formerly part of AD-ED 054)

**ANTHROPOLOGY****ANTHR 101—INTRODUCTION TO ANTHROPOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-The human experience explored through paleontological and archaeological records, racial variation, and contemporary cultures.

**ANTHR 195—INDEPENDENT STUDY**

Can be offered as: ANTHR 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ANTHR 201—INTRODUCTION TO PHYSICAL ANTHROPOLOGY**

Can be offered as: ANTHR 201 and 201L or ANTHR 201 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

SS/NS-Prerequisite: Recommended ANTHR 101. Views humans as biological organisms within the framework of culture. Attention is given to human variation and adaptation, genetics, fossil evidence for human evolution, and primate studies.

**ANTHR 201L—LAB-INTRO TO PHYSICAL ANTHROPOLOGY****Cr: 0 Wkly hrs: 2 hours Lab**

SS/NS-See ANTHR 201.

**ANTHR 202—INTRODUCTION TO CULTURAL ANTHROPOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Overview of the subfield of cultural anthropology. Cross cultural comparison of contemporary societies. Cultural elements including marriage, family, politics, technology, religion, etc.

**ANTHR 203—LINGUISTIC ANTHROPOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

H/SS-Introduces linguistic anthropology, including its history, theory, research, and application for cross-cultural study. Focuses on a variety of approaches to the study of language.

**ANTHR 205—INTRODUCTION TO ARCHAEOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Recommended ANTHR 101. Basic principles and methods of archaeological research, also the prehistoric record examined.

**ANTHR 210—NORTH AMERICAN INDIANS****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Recommended ANTHR 101. Comparative study of American Indians, prehistoric origins, Paleo Indians. Representative cultures from Western U.S. Examination of contemporary Indians.

**ANTHR 220—PEOPLES AND CULTURES OF SOUTH ASIA****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Survey of cultures and social structures of South Asia with emphasis upon selected areas and problems. The course covers religion, economy, art, music, gender, kinship, and socio-political conditions with main focus on cultural diversity and change.

**ART****ART 100—ART APPRECIATION****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Student finds personal meaning in visual arts, painting, sculpture, and architecture with emphasis on diversity of form, and content, and comparative styles.

**ART 102—ART HISTORY/ROMAN EMPIRE—RENAISSANCE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Major achievements in painting, sculpture, architecture, and the decorative arts of the Roman Empire through the Early Renaissance.

**ART 103—ART HISTORY/15TH-18TH CENTURY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-European art from the Renaissance (15th Century) through the 18th Century.

**ART 104—ART HISTORY/THE MODERN WORLD****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Major achievements in painting, sculpturing, the graphic arts, and architecture in the Western World from the 19th Century to the present.

**ART 106—DRAWING I****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Drawing from still life and the figure with emphasis on composition, sensitivity of seeing, and interpretation.

**ART 107—DRAWING II****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Prerequisite: ART 106. Continued study of still life, figure, and landscape, with introduction to color and emphasis on sensitivity to design and expression.

**ART 108—EUROPEAN SKETCH/MUSEUM STUDY****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Prerequisite: ART 106, suggested ART 107. Intensive sketch study of European locations such as Rome, Florence, Pisa, and Paris. Equal time to be allotted to museum study emphasizing pre-Renaissance through impressionist values.

**ART 110—DESIGN I****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Study of the relationship of form: The elements of art and the principles of organization as an understanding of art and the creative process. Introduction of computer art design.

**ART 111—DESIGN II**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Prerequisite: ART 110. Continuation of ART 110 with emphasis on color theory. Problems in creative thinking in the development of compositional ideas.

**ART 112—INTRODUCTION TO INTEGRATED MULTIMEDIA**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Students explore computer software and platforms while also learning the skills and possibilities of communication offered with the use of multimedia; a tool that can be used by everyone. (Same as IMM 101)

**ART 113—ART IN THE ELEMENTARY SCHOOL**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Teaching practices in the elementary school with design principles as the basis of understanding the creative process. (Same as EDUC 105)

**ART 114—ART IN THE SECONDARY SCHOOL**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Teaching visual art practices in the secondary school with design principles as the basis of understanding the creative process. (Same as EDUC 114)

**ART 115—ART HISTORY/NATIVE AMERICAN**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-This is the study of the "Native Arts" of the indigenous peoples of North America from prehistory to Columbus in 1492. (Formerly ART 105A)

**ART 116—ART HISTORY/NATIVE AMERICAN**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-This is the continuation of ART 115, the study of the "Native Arts" of the indigenous peoples of North America from 1492 to Western Exploration (1849).

**ART 117—ART HISTORY/NATIVE AMERICAN**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-This is the continuation of ART 116. The study of the "Native Arts" of the indigenous peoples of North America from the "Indian Wars" (1850) to the present.

**ART 120—ART OF THE WESTERN WORLD**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H- This course examines the greatest visual works of the Western World, highlighting issues of social context, form, and iconography, from 600 BC to the present.

**ART 121—AMERICAN ART HISTORY**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-This course is a glimpse of American history through the examination of its visual art. From the 17th Century to the present, this series follows the nation's creativity.

**ART 125—CERAMICS I**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H/SP-Cone ten stoneware, mixing clays, emphasis on pottery wheel and hand building; firing kilns and experimenting with glaze chemistry.

**ART 130—ANIMATION DESIGN**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Students study animation history, character design and movement elements, production planning, 3D-model making, character sheets, background design, and writing for animation. (Formerly IMM 181)

**ART 131—ANIMATION PROCESS**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Students study animation from many cultures and use various processes such as the computer, claymation, tabletop, 2D, and 3D animation, flash, and GIF to do their projects. (Formerly IMM 182)

**ART 195—INDEPENDENT STUDY**

Can be offered as: ART 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195F—INDEPENDENT STUDY—CERAMICS**

Can be offered as: ART 195F/295F.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 226 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195G—INDEPENDENT STUDY—PAINTING**

Can be offered as: ART 195G/295G.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 242 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195H—INDEPENDENT STUDY—PRINTMAKING**

Can be offered as: ART 195H/295H.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 237 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195J—INDEPENDENT STUDY—WATERCOLOR**

Can be offered as: ART 195J/295J.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 231 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195K—INDEPENDENT STUDY—JEWELRY**

Can be offered as: ART 195K/295K.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 282 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195M—INDEPENDENT STUDY—BRONZE CASTING/SCULPTURE**

Can be offered as: ART 195M/295M.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 264 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195N—INDEPENDENT STUDY—LIFE DRAWING**

Can be offered as: ART 195N/295N.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 221 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195P—INDEPENDENT STUDY—SCULPTURE**

Can be offered as: ART 195P/295P.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 266 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195R—INDEPENDENT STUDY—DESIGN**

Can be offered as: ART 195R/295R.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 111 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 195S—INDEPENDENT STUDY—DRAWING**

Can be offered as: ART 195S/295S.

**Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: ART 206 or permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ART 206—DRAWING III**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H/SP-Prerequisite: ART 107. Further study of compositional and expressive intent in drawing as related to varied subject matter, and emphasizing techniques in color.

**ART 210—DESIGN III**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H/SP-Prerequisite: ART 111. Continuation of ART 111. Emphasis on experimentation with color and materials in three-dimensional form.

**ART 211—TWO AND THREE DIMENSIONAL DESIGN**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H-Students explore with computer software and platforms the aspects of 2D and 3D design while learning new skills and exploring the communication and artistic possibilities offered in multimedia.

**ART 220—LIFE DRAWING I**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H/SP-Prerequisite: ART 106 and 107. In-depth study of the figure and the figure in its environment emphasizing the aspects of design, expression, and utilizing the live model.

**ART 221—LIFE DRAWING II**

**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

H/SP-Prerequisite: ART 106, 107, and 110. Continuation of ART 220, with emphasis on media experimentation and development in conjunction with use of design and expression—utilizing the live model.

**ART 222—LIFE DRAWING III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106, 110, 220, and 221. Continuation of ART 221 with emphasis on experimentation and development in conjunction with use of advanced design and expressive issues—utilizing the live Model.

**ART 225—CERAMICS II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 125. Continuation of ART 125 with new emphasis on design of form, experimenting with clays and glazes, and different firing techniques.

**ART 226—CERAMICS III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106, 110, and 225. Continuation of ART 225, with further experimentation in porcelain, clays, and glazes.

**ART 230—WATERCOLOR I**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106 and/or ART 110 or permission of instructor. Introduction to techniques of transparent watercolor. Studio and landscape experiences exploring the expressive and stylistic possibilities of the medium.

**ART 231—WATERCOLOR II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 230. Continuation of ART 230, encouraging further development of personal imagery, technique, and style. Emphasis will be on developing the student's work through individual instruction.

**ART 232—WATERCOLOR III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 230. Emphasis on composition, combining transparent and opaque watercolor, acrylic, prismacolor, pastels, ink, charcoal, and collage. Subject matter is open-ended.

**ART 235—PRINTMAKING I**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 110 and/or ART 106. Introduction to basic intaglio printmaking techniques such as the collagraph, upson board, and dry point.

**ART 236—PRINTMAKING II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 235. Introduction to basic relief techniques including linoleum, wood block, and multiple plate color printing.

**ART 237—PRINTMAKING III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 236. Exploration and development of the monoprint and its unique combination of both print and painting techniques.

**ART 240—PAINTING I**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106 and/or ART 110. Introduction of fundamental techniques and materials of acrylic and oil painting. Emphasis on composition, color, theory, and paint handling of image.

**ART 241—PAINTING II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 240. Continuation of ART 240 with emphasis on structure, composition, and color. Search for personal involvement and expression.

**ART 242—PAINTING III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 241. Continuation of ART 241. Stresses the further development of the individual's painterly perceptions and the application of various media in compositional organization.

**ART 264—BRONZE CASTING/SCULPTURE**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: Sculptural ideas and concepts as related to fundamental lost wax bronze casting: Technical aspects, available metals, methods of transposing ideas into sculpture.

**ART 266—SCULPTURE I**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Development of fundamental and personal concepts concerning subject matter as related to sculpture. Experience with a wide range of media and techniques.

**ART 267—SCULPTURE II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106, 110, and 266. Continuation and in-depth study of sculptural ideas and concepts as related to various multi-media and concept-related materials.

**ART 268—SCULPTURE III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 106, 110, 266, and 267. Continuation of ART 267 and an in-depth study of sculptural ideas and concepts, with concentration in a specific material.

**ART 280—JEWELRY I**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Introduction to the design, materials, and fabrication of jewelry, with emphasis on expression through development of individual ideas and imagery through lecture, demonstrations, and studio works.

**ART 281—JEWELRY II**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 280. Continued study in the design and fabrication of jewelry, with emphasis on personal expression through the development of individual ideas and imagery.

**ART 282—JEWELRY III**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

H/SP-Prerequisite: ART 281. Ongoing study in the design and fabrication of contemporary jewelry, with emphasis on personal expression.

**ASTRONOMY****ASTRO 101—INTRODUCTION TO ASTRONOMY**

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: MATH 094 (Elementary Algebra) or equivalent. Modern concepts and theories from the science of astronomy; motions of night-time sky, history of astronomy, light and telescopes, solar system, stars, and galaxies. Particular emphasis on composition of our solar system.

**ASTRO 102—INTRODUCTION TO ASTRONOMY**

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: ASTRO 101 and MATH 099 or MATH 099B with a grade of 2.0 or above, or permission of instructor. Continuation of ASTRO 101. Properties of stars, stellar evolution, the Milky Way and other galaxies, quasars, cosmology. (Pass/No Credit)

**ASTRO 195—INDEPENDENT STUDY**

Can be offered as: ASTRO 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ASTRO 201—INTRODUCTION TO COSMOLOGY**

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: ASTRO 101 and MATH 119 or equivalent. Expansion and large-scale structure of universe, standard expansion models, quasars, microwave background, dark matter, early moments, and future of universe. Preliminary topics: Spectra, stars, stellar evolution, and galaxies.

**AUTOMOTIVE TECHNOLOGY****AUT-T 089—AUTO PARTS AND SERVICE TRAINING**Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

This course will prepare learners for entry level positions in automotive quick service, tire service, or parts retailing.

**AUT-T 101—INTRO TO AUTO TECH SYSTEMS/SERVICE**Cr: 5 Wkly hrs: 1 hour Lecture  
8 hours Lab

Familiarization with basic automotive systems, tools, and service procedures. This course or equivalent is prerequisite for admission into automotive vocational courses.

**AUT-T 121—AUTOMOTIVE BRAKING SYSTEMS I**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 122 and 240. Familiarization with automotive braking systems. Fundamentals of hydraulics, friction, and brake theory.

**AUT-T 122—AUTOMOTIVE BRAKING SYSTEMS II**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 121 and 240. Familiarization with power assist braking, parking brakes, and anti-lock brakes.

**AUT-T 123—AUTOMOTIVE DRIVE TRAINS AND AXLES**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 150 and 290. Familiarization with automotive clutches, drive shafts, C-V joints, rear axles, and four-wheel drive units.

**AUT-T 124—INTRODUCTION TO AUTOMOTIVE ENGINES**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 125 and 126. Familiarization with all automotive engine operating systems. Special emphasis on diagnosis and trouble-shooting oil, cooling, compression, and related problems.

**AUT-T 125—AUTOMOTIVE VALVE TRAINS AND BLOCKS**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 124 and 126. Familiarization with "L-Head" and "Over-head" valve cylinder heads and blocks. Special emphasis on diagnosis/trouble-shooting/repair.

**AUT-T 126—AUTOMOTIVE FUEL AND EMISSION SYSTEMS**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 124 and 125. Familiarization with computerized and non-computerized automotive fuel systems. In-depth survey of vehicular emission control systems from early cars to the current production year.

**AUT-T 130—ELECTRICAL SYSTEM DIAGNOSIS**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: Concurrent enrollment in AUT-T 131, 132, 133, 134, 135, 136, 137, 138 and permission of instructor. General electrical system diagnosis.

**AUT-T 131—BATTERY DIAGNOSIS AND SERVICE**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: AUT-T 130. Auto battery system diagnosis and service.

**AUT-T 132—STARTING SYSTEM DIAGNOSIS AND REPAIR**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: AUT-T 130 and 131. Automotive starting system diagnosis and repair.

**AUT-T 133—CHARGING SYSTEM DIAGNOSIS AND REPAIR**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: AUT-T 130 and 131. Automotive charging system diagnosis and repair.

**AUT-T 134—IGNITION SYSTEM DIAGNOSIS AND REPAIR**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: AUT-T 130, 131, and 132. Auto ignition system diagnosis and repair.

**AUT-T 135—LIGHTING SYSTEM DIAGNOSIS AND REPAIR**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: AUT-T 130. Lighting systems diagnosis and repair.

**AUT-T 136—GAUGES AND WARNING DEVICES**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: AUT-T 130. Gauges, warning devices, and driver information systems diagnosis and repair.

**AUT-T 137—HORN/WIPER/WASHER DIAGNOSIS & REPAIR**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: AUT-T 130. Horn and wiper/washer diagnosis and repair.

**AUT-T 138—ACCESSORIES DIAGNOSIS AND REPAIR**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: AUT-T 130. Auto accessories diagnosis and repair.

**AUT-T 145—APPLIED PROBLEM SOLVING**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score and concurrent enrollment in or completion of ATA requirements in AUT-T or RSCON or TEC-D or WELD vocational programs. Uses a lecture/discovery format to augment the math instruction intrinsic in Automotive, Residential Construction, Technical Design or Welding curricula. Uses math concepts and models to enhance problem-solving skills required in the workplace. (Same as RSCON 145, TEC-D 145, and WELD 145)

**AUT-T 150—A/C SYSTEM DIAGNOSIS AND REPAIR**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 123 and 290. Familiarization with concepts and components of heating and air conditioning systems. An in-depth survey of the refrigeration cycle with an additional emphasis on safety and environmental requirements.

**AUT-T 171—BASIC AUTOMOTIVE TUNE-UP**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

Maintenance and minor repair, with emphasis on the functional operation and techniques of minor adjustments and repairs.

**AUT-T 195—INDEPENDENT STUDY**

Can be offered as: AUT-T 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**AUT-T 220—AUTOMATIC TRANSMISSIONS I**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Concurrent enrollment in AUT-T 221, 222, and permission of instructor. Familiarization with automotive automatic transmissions. Special emphasis on transmission/transaxle diagnosis and repair.

**AUT-T 221—AUTOMATIC TRANSMISSIONS II**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Concurrent enrollment in AUT-T 220, 222, and permission of instructor. Familiarization with both on- and off-vehicle transmission/transaxle repair.

**AUT-T 222—MANUAL TRANSMISSIONS**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Concurrent enrollment in AUT-T 220, 221, and permission of instructor. Familiarization with manual transmissions and transaxles. Special emphasis on troubleshooting and diagnosis.

**AUT-T 225—APPLIED SHOP PRACTICES**Cr: 14 Wkly hrs: 3 hours Lecture  
22 hours Lab

Prerequisite: Two or more AUT-T courses and permission of instructor only. Continued application of skills to in-shop operations approximating those in actual repair shops. Includes estimating repair costs, ordering parts, preparing invoices and comparing "actual time" to flat rate.

**AUT-T 230—ADVANCED ELECTRONICS AND COMPUTERS**Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab

Prerequisite: AUT-T 130. A study of the automotive computer: Its input sensors and apply devices, the systems it controls, and the diagnosing of problems relating to all of the above.

**AUT-T 240—SUSPENSION/STEERING SYST DIAG/REPAIR**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: AUT-T 101 or permission of instructor and concurrent enrollment in AUT-T 121 and 122. Familiarization with theory, components, and inspection and repair procedures for automotive suspension and steering systems.

**AUT-T 271—ADVANCED AUTOMOTIVE TUNE-UP**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

Prerequisite: AUT-T 171 or permission of instructor. An exploration of computerized controls in automobiles and light trucks. Emphasis will be on input/output components and troubleshooting.

**AUT-T 290—ADVANCED DIAGNOSTIC CLINIC**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: 45 credits of AUT-T or permission of instructor; concurrent enrollment in AUT-T 123 and 150. Comprehensive review and application of advanced automotive diagnostic strategies and preparation for national certification exams.

**BARBERING****BARB 150—SHAMPOO AND RINSE**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor approval. Study draping, brushing hair, scalp manipulation, PH values, conditioning, and rinsing. Includes hands-on experience in proper shampooing and rinsing techniques.

**BARB 151—SKIN/SCALP/HAIR ANALYSIS**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: Instructor approval. Study different massage techniques for individual skin conditions and product knowledge for different hair types.

**BARB 152—HAIRCUTTING AND TRIMMING I**Cr: 9 Wkly hrs: 2 hours Lecture  
14 hours Lab

Prerequisite: Instructor approval. Study the use of scissors, razor, thinning shears, and clippers to cut and trim hair. Includes hands-on experience in cutting and trimming of hair.

**BARB 153—HAIRCUTTING AND TRIMMING II**Cr: 7 Wkly hrs: 1 hour Lecture  
12 hours Lab

Prerequisite: Successful completion of BARB 152 and instructor approval. Study the use of scissors, razor, thinning shears, and clippers to cut and trim hair. Includes hands-on experience in cutting and trimming of hair.

**BARB 154—CUTTING/TRIMMING FACIAL HAIR**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab

Prerequisite: Instructor approval. Study shaving and clipping beards, mustaches, eyebrows, and ear and nose hair. Includes hands-on experience in shaving and clipping of facial hair.

**BARB 155—THERMAL STYLING**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Instructor approval. Study the various techniques in thermal curling and blow waving. Includes hands-on application of the techniques.

**BARB 156—WET STYLING**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Instructor approval. Study the various hairstyles done using mousses and gels and the effects they create. Includes hands-on experience utilizing mousses and gels to do various hairstyles.

**BARB 157—DRY STYLING**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: Instructor approval. Study styling hair in various shapes and forms using the hands. Includes hands-on experience dry-styling hair.

**BARB 158—STYLING AIDS**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: Instructor approval. Study the use of blow dryers, thermal and curling irons, and hot combs to style hair. Includes hands-on experience utilizing the styling aids to style hair.

**BARB 159—ARTIFICIAL HAIR**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

Prerequisite: Instructor approval. Learn to fit and style wigs and hairpieces. Includes hands-on experience working with clients to meet their particular needs and preferences when fitting and styling their wigs and hairpieces.

**BARB 160—DISEASES OF SKIN/SCALP/HAIR**Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Instructor approval. Learn to recognize the different diseases and disorders of skin, scalp, and hair. Includes hands-on experience distinguishing the various diseases and disorders.

**BARB 161—SAFETY AND SANITATION**Cr: 4 Wkly hrs: 1 hour Lecture  
6 hours Lab

Prerequisite: Instructor approval. Learn the safety and sanitation requirements related to barbering. Includes cleaning work stations, shampoo and dispensary bowls, proper disposal and storage of towels, and sanitation of implements.

**BARB 162—FIRST AID**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: Instructor approval. Learn the use of first aid as related to barbering. Includes hands-on experience utilizing proper first aid procedures.

**BIOLOGY****BIO 100—INTRODUCTION TO PLANTS**

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Basic course on plants, emphasizing diversity of structures, functions, economic importance, and function of plants in vegetation systems and human communities.

**BIO 101—INTRODUCTION TO MARINE SCIENCE**

Can be offered as: BIO 101 and 101L or BIO 101 only (lab included).

Cr: 5 Wkly hrs: 3 hours Lecture

NS-Origin and extent of the ocean, its biological, chemical, geological, and physical aspects. Interactions of plants and animals in the sea and their use by humans. Includes some field trips.

**BIO 101L—LAB-INTRODUCTION TO MARINE SCIENCE**Cr: 0 Wkly hrs: 4 hours Lab  
NS-See BIO 101.**BIO 105—BIOLOGICAL PRINCIPLES**

Can be offered as: BIO 105 and 105L or BIO 105 only (lab included).

Cr: 5 Wkly hrs: 3 hours Lecture

NS-A general overview of important areas of biology for non-science majors beginning at the cellular level and culminating with a consideration of interactions and changes in natural populations. Includes laboratory.

**BIO 105L—LAB-BIOLOGICAL PRINCIPLES**

Cr: 0 Wkly hrs: 4 hours Lab

NS-See BIO 105.

**BIO 107—BIOLOGICAL TOPICS IN TODAY'S SOCIETY**

Cr: 3 Wkly hrs: 3 hours Lecture

NS-For students not pursuing a career in biological sciences. Topics include diseases, pollution in Puget Sound, shellfish toxins and CIA, Rh Factor, and allergies.

**BIO 114—NATURAL HISTORY/THE PACIFIC NORTHWEST**Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab

NS-Field, lecture, and laboratory course emphasizing the identification, habits, habitats, adaptations, and interrelationships of plants and animals that constitute the biomes of the Pacific Northwest.

**BIO 115—FRESHWATER BIOLOGY**

Can be offered as: BIO 115 and 115L or BIO 115 only (lab included).

Cr: 5 Wkly hrs: 3 hours Lecture

NS-Local freshwater organisms and basic biological, physical, and chemical factors of the inland water environment. Field trips to ponds, lakes, streams, and estuaries in the immediate area.

**BIO 115L—LAB-FRESHWATER BIOLOGY**

Cr: 0 Wkly hrs: 4 hours Lab

NS-See BIO 115.

**BIO 118—WOODY PLANT REPAIR-PRUNING**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

NS-Procedures used to train fruit and berry varieties for improved yield, basics of grafting, budding, selection, and care of tools.

**BIO 120—LOCAL FLORA**

Can be offered as: BIO 120 and 120L or BIO 120 only (lab included).

Cr: 5 Wkly hrs: 3 hours Lecture

NS-An introduction to the native flowering plants of Western Washington. Emphasis is placed on the use of taxonomic keys to identify the local flowering plants. Of importance to students majoring in forestry, game management, botany, horticulture, ecology, and those interested in learning more about their natural surroundings.

**BIO 120L—LAB-LOCAL FLORA**

Cr: 0 Wkly hrs: 4 hours Lab

NS-See BIO 120.

**BIO 195—INDEPENDENT STUDY**

Can be offered as: BIO 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**BIO 199—PRACTICUM**

Cr: 1-5 Wkly hrs: 10 hours Lab

A practical application in the working world of the basic theories studied in the above program or discipline.

**BIO 200—SCIENCE OF HUMAN NUTRITION**

Can be offered as: BIO 200 and 200L or BIO 200 only (lab included).

Cr: 5 Wkly hrs: 4 hours Lecture

NS-Prerequisite: CHEM 122 and College Biology, (Anatomy & Physiology, helpful) Or Organic CHEM 240, 250 and College Biology or CHEM 140, 150 and College Biology; all classes must be passed with a 2.0 or better. Basic principles of nutrition emphasizing the physiological requirements for proteins, lipids, carbohydrates, vitamins, and minerals; their sources; their relationship to metabolism, nutritional status, and common health problems. Introduction to Chinese, Naturopathic & Ayurvedic Theory of health and Nutrition.

**BIO 200L—LAB-SCIENCE OF HUMAN NUTRITION**

Cr: 0 Wkly hrs: 2 hours Lab

NS-See BIO 200.

**BIO 201—GENERAL BIOLOGY**

Can be offered as: BIO 201 and 201L or BIO 201 only (lab included).

Cr: 5 Wkly hrs: 3 hours Lecture

NS-Prerequisite: None, however, to satisfy the prerequisite for upper division biology courses at some institutions, a year of general chemistry must be completed. An introduction to the biological sciences, emphasizing genetic and cellular processes common to plants and animals. For majors and non-majors; however this course is designed to prepare students to enter advanced biology courses and pre-professional programs.

**BIO 201L—LAB-GENERAL BIOLOGY**

**Cr: 0 Wkly hrs: 4 hours Lab**  
NS-See BIO 201.

**BIO 202—GENERAL BIOLOGY**

Can be offered as: BIO 202 and 202L or BIO 202 only (lab included).

**Cr: 5 Wkly hrs: 3 hours Lecture**

NS-Prerequisite: BIO 201 suggested or permission of instructor. A continuation of BIO 201 emphasizing reproduction, growth, and homeostasis in plants and animals. For majors and non-majors, designed to prepare students to enter advanced biology courses and pre-professional programs.

**BIO 202L—LAB-GENERAL BIOLOGY**

**Cr: 0 Wkly hrs: 4 hours Lab**  
NS-See BIO 202.

**BIO 203—GENERAL BIOLOGY**

Can be offered as: BIO 203 and 203L or BIO 203 only (lab included).

**Cr: 5 Wkly hrs: 3 hours Lecture**

NS-Prerequisite: BIO 201 and 202 suggested or permission of instructor. A continuation and expansion of BIO 201 and 202 emphasizing molecular and developmental genetics of both prokaryotic and eukaryotic organisms as well as the major topics of ecology, i.e., populations, communities and ecosystems. For majors and non-majors, designed to prepare students to enter advanced biology courses and pre-professional programs.

**BIO 203L—LAB-GENERAL BIOLOGY**

**Cr: 0 Wkly hrs: 4 hours Lab**  
NS-See BIO 203.

**BIO 204—COMPLEXITY IN BIOLOGICAL SYSTEMS**

**Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 094 and one quarter of any Laboratory Science. An introduction to the science of complexity, now used to predict system behavior in the physical, life, and social sciences. Emphasis will be on complexity in biological systems.

**BIO 205—INTRODUCTION TO OCEANOGRAPHY**

**Cr: 5 Wkly hrs: 3 hours Lecture**  
**4 hours Lab**

NS-Quantitative and descriptive study of the oceans and their physics, chemistry, geology, and biology. Laboratory includes extensive field work.

**BIO 240—MARINE BIOLOGY**

Can be offered as: BIO 240 and 240L or BIO 240 only (lab included).

**Cr: 5 Wkly hrs: 3 hours Lecture**

NS-Prerequisite: One quarter of biology or permission of instructor. Local organisms and biological factors of the marine environment. Includes field trips to local intertidal areas.

**BIO 240L—LAB-MARINE BIOLOGY**

**Cr: 0 Wkly hrs: 4 hours Lab**  
NS-See BIO 240.

**BIO 250—ANATOMY AND PHYSIOLOGY**

Can be offered as: BIO 250 and 250L or BIO 250 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: CHEM 121 and 122 or CHEM 140 and 150; concurrent enrollment in either CHEM 122 or 150 is permitted but not recommended. Analysis of representative vertebrates for the chemical-physical processes in organ systems and their gross anatomy and histology as they pertain to the human body. Recommended for pre-professional programs. Enrollment in BIO 250 and 251 insures transferable credit.

**BIO 250L—LAB-ANATOMY AND PHYSIOLOGY**

**Cr: 0 Wkly hrs: 3 hours Lab**  
NS-See BIO 250.

**BIO 251—ANATOMY AND PHYSIOLOGY**

Can be offered as: BIO 251 and 251L or BIO 251 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: BIO 250 or equivalent with a grade of 2.0 or better. A continuation of BIO 250 with emphasis on blood, immunity, respiration, urinary function, digestion, endocrine, and reproduction. Lab includes dissections and structure identification.

**BIO 251L—LAB-ANATOMY AND PHYSIOLOGY**

**Cr: 0 Wkly hrs: 3 hours Lab**  
NS-See BIO 251.

**BIO 260—MICROBIOLOGY**

Can be offered as: BIO 260 and 260L or BIO 260 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: A minimum of 5 hours of biological science can be BIO 105, 201, or 250, and CHEM 122. The structure, function, metabolism, genetics, control and cultivation of microorganisms. Their role in disease and immunity. Course includes the pathophysiology of 33 diseases. For science majors and pre-professionals.

**BIO 260L—LAB-MICROBIOLOGY**

**Cr: 0 Wkly hrs: 2**

**hours Lab**  
NS-See BIO 260.

**BUSINESS AND ECONOMICS****BS-EC 101—INTRODUCTION TO BUSINESS**

**Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Introduces the major operations of a business including production, marketing, finance, and human resource management. Examines the economic, social, and political environment of business.

**BS-EC 195—INDEPENDENT STUDY**

Can be offered as: BS-EC 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**BS-EC 201—ECONOMICS—MACRO**

**Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 107 or above with a grade of 2.0 or above and an ASSET Test reading skills score of 40 or above or permission of instructor. Fundamentals of a private-enterprise economy; national income; employment; inflation; growth; money; the monetary system; Keynesian Economics; Monetarist Economics; international trade.

**BS-EC 202—ECONOMICS—MICRO**

**Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 107 or above with a grade of 2.0 or above and an ASSET Test reading skills score of 40 or above or permission of instructor. Supply and demand; cost and revenue analysis; pure competition; agriculture; monopoly; imperfect competition; antitrust policy; regulation; factor incomes; unions.

**BS-EC 207—INTRODUCTION TO ECONOMIC GEOGRAPHY**

**Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. Economic geography is concerned with the distribution of economic activity, the use of the world's resources, and the spatial organization and expansion of the world economy. (Same as GEOG 207)

**BS-EC 225—BUSINESS TRANSFER SEMINAR**

**Cr: 2 Wkly hrs: 2 hours Lecture**

A seminar designed to ease the transfer of business students to the university of their choice, and to help students identify their potential for achievement in a business or professional career.

**BS-EC 251—PRINCIPLES OF ACCOUNTING I**

**Cr: 5 Wkly hrs: 5 hours Lecture**

The course will begin with an overview of accounting as an information system, move to coverage of the accounting cycle, examine accounting for merchandising operation, and conclude with coverage of cash, receivables, and inventories.

**BS-EC 252—PRINCIPLES OF ACCOUNTING II**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: BS-EC 251. The course includes accounting for fixed assets, liabilities, partnerships, and corporations. Additionally, coverage should include the statement of cash flows as well as the underlying principles of accounting.

**BS-EC 253—MANAGERIAL ACCOUNTING**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: BS-EC 252 and high school algebra or its equivalent. Development and analysis of accounting information for managerial decision-making.

**BS-EC 257—INTRODUCTION TO BUSINESS STATISTICS**

**Cr: 3 Wkly hrs: 2 hours Lecture**  
**2 hours Lab**

Prerequisite: MATH 099 or equivalent. Collection and presentation of business data; empirical frequency distributions; measures of central position; measures of dispersion; index numbers; probability concepts.

**BS-EC 258—BUSINESS STATISTICS**

**Cr: 3 Wkly hrs: 2 hours Lecture**  
**2 hours Lab**

Prerequisite: BS-EC 257. Application of statistical inference to business decisions; sampling; sampling distributions; confidence intervals; tests of hypotheses; power curves; regression; and correlation.

**BS-EC 259—INTRODUCTION TO LAW**

**Cr: 5 Wkly hrs: 5 hours Lecture**

An introduction to the American legal system: The procedures, function, and jurisdiction of the court system; precedent; criminal and tort procedures; the legal power of administrative agencies; regulation of business activities; and basic contract law.

**BS-EC 260—BUSINESS LAW**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Origin and development of business law, the legal system procedure, and institutions for enforcement of legal rights; business contracts, and business organization. U.C.C. regulations.

**BS-EC 268—BUSINESS LAW II**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Introduction to laws concerning agency, sales, secured transactions, bankruptcy, personal property and bailments, employment, and insurance.

## BUSINESS MANAGEMENT

### BMGMT 102—INTRO TO INTERNATIONAL BUSINESS

Cr: 5 Wkly hrs: 5 hours Lecture

This course will draw you into the world of international business and culture. Learn how the foreign exchange markets work and how the world's religions impact a firm's ability to compete. Topics include: Trade deficits, balance of payments, trade barriers, the World Bank, NAFTA, The European Union, and the World Trade Organization.

### BMGMT 103—SMALL BUSINESS PLANNING & MANAGEMENT

Cr: 5 Wkly hrs: 5 hours Lecture

Learn how to recognize an opportunity when you see it. This course explores the risks and rewards of small business ownership. Emphasis is on finding a proper legal structure; determining start-up costs and financial competencies; aligning target markets with promotional strategies; and finding a management style that fosters increased productivity among employees. Applicable to start-up and existing small businesses. A business plan is outlined.

### BMGMT 105—INTRODUCTION TO FINANCIAL PLANNING

Cr: 5 Wkly hrs: 5 hours Lecture

Provides information to help you establish a personal or small business financial plan. Includes common sense budgeting and money management tips, insights into credit card comparisons, real estate, refinancing and consumer loans; exploration of capital markets including stocks, bonds, mutual funds, money markets and foreign exchange. Basic retirement planning and insurance needs are also discussed. There's no reason not to have a plan anymore! (Formerly BS-EC 105)

### BMGMT 146—ENTREPRENEURSHIP—FINANCIAL ANALYSIS

Cr: 2 Wkly hrs: 2 hours Lecture

A 2-day entrepreneurial seminar on how to get more information from the basic Balance Sheet, Income and Cash Flow Statements. Information that could turn your business around. Topics include ratio analysis, aging of account receivables and trend analysis. Applicable to start-up and existing small businesses. Contact the bookstore for required publication. (Formerly BS-EC 146)

### BMGMT 147—HUMAN RESOURCE MANAGEMENT

Cr: 1 Wkly hrs: 1 hour Lecture

An entrepreneurial series, one-day seminar emphasizing Human Resource Risk Management issues including interviewing and performance appraisal techniques that foster increased productivity among employees. Wrongful termination, sexual harassment, OSHA, Americans with Disabilities, and Washington State wage and hour limitations for minors are also introduced. Applicable to start-up and existing small businesses. Contact the bookstore for required publication. (Formerly BS-EC 147)

### BMGMT 148—DEADLINE AND PROJECT MANAGEMENT

Cr: 1 Wkly hrs: 1 hour Lecture

An entrepreneurial series, one-day seminar emphasizing tips on how to get organized and stay that way. Discussions center on managing multiple projects/deadlines, and basic project management tools are introduced. Applicable to start-up and existing small businesses. Contact the bookstore for required publication. (Formerly BS-EC 147)

### BMGMT 149—ENTREPRENEURSHIP—MKTG FOR GROWTH

Cr: 2 Wkly hrs: 2 hours Lecture

An entrepreneurial 2-day seminar covering non-traditional marketing techniques for small business survival. Instruction on writing press releases and tips on using a number of local advertising sources is discussed. Applicable to start-up and existing small businesses. Contact the bookstore for required publication. (Formerly BS-EC 149)

### BMGMT 170—CLIENT/CUSTOMER RELATIONS

Cr: 2 Wkly hrs: 2 hours Lecture

Provides oral and written skill development focusing on efficient ways to deliver quality service to customers. (Formerly BS-EC 170)

### BMGMT 180—MARKETING

Cr: 5 Wkly hrs: 5 hours Lecture

Learn the basics about marketing and promotional strategies, consumer buying behaviors, marketing management processes, organizational marketing research and targeting niches. Baby Boomers, X'ers and Generation Y, find out how organizations large and small target consumers like you in promoting their goods and services at a profit. You'll never view commercials the same way again.

### BMGMT 181—PRINCIPLES OF SALES

Cr: 5 Wkly hrs: 5 hours Lecture

Selling isn't what it used to be. Find out how being an information provider can help you better meet your customer's needs and improve your opportunities for sales. This course provides an introduction into a number of effective selling techniques, information on handling objections, active listening and preparing that winning sales presentation. (Formerly BS-EC 181)

### BMGMT 195—INDEPENDENT STUDY

Can be offered as: BMGMT 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

### BMGMT 220—HUMAN RELATIONS IN THE WORKPLACE

Cr: 3 Wkly hrs: 3 hours Lecture

The study of interactions between people at the workplace. The course focuses on developing skills to work effectively with other people as a team member and as part of an organization. (Formerly BS-EC 220)

### BMGMT 282—PRINCIPLES OF LEADERSHIP/MANAGEMENT

Cr: 5 Wkly hrs: 5 hours Lecture

Exploration of the functions of management and strategies for effective leadership. Provides an overview of management theory, organizational structure, total quality control, staffing practices, empowerment through motivation, decision making and team leadership.

## CHEMISTRY

### CHEM 101—ATOMS, MOLECULES, AND OUR WORLD

Can be offered as: CHEM 101 and 101L or CHEM 101 only (lab included).

Cr: 6 Wkly hrs: 5 hours Lecture

NS-Prerequisite: MATH 094, or permission of instructor. This course introduces chemical principles in a nonmathematical format and is intended for the liberal arts student. Topics will include food, energy, household chemicals, and drugs.

### CHEM 101L—LAB-ATOMS, MOLECULES, WORLD

Cr: 0 Wkly hrs: 2 hours Lab

NS-See CHEM 101.

### CHEM 121—GENERAL CHEMISTRY

Can be offered as: CHEM 121 and 121L or CHEM 121 only (lab included).

Cr: 6 Wkly hrs: 5 hours Lecture

NS-Prerequisite: Completion of MATH 099 or MATH 099B with a 2.0 or better or a score of 45 on the ASSET test for intermediate algebra. Atomic and molecular theory, bonding, quantitative chemical relationships, solutions, ionic equilibria, acids, bases, salts, metals, and non-metals. An introduction to organic chemistry is included. Primarily for ADN and allied health students.

### CHEM 121L—LAB-GENERAL CHEMISTRY

Cr: 0 Wkly hrs: 2 hours Lab

NS-See CHEM 121.

### CHEM 122—SURVEY OF ORGANIC AND BIOCHEMISTRY

Can be offered as: CHEM 122 and 122L or CHEM 122 only (lab included).

Cr: 6 Wkly hrs: 5 hours Lecture

NS-Prerequisite: CHEM 121. Organic compounds: Hydrocarbons, alcohols, aldehydes, ketones, ethers, acids, lipids, carbohydrates, proteins, enzymes, and nucleic acids.

### CHEM 122L—LAB-SURVEY OF ORGANIC & BIOCHEMISTRY

Cr: 0 Wkly hrs: 2 hours Lab

NS-See CHEM 122.

### CHEM 137—CHEMISTRY OF THE ENVIRONMENT

Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab

NS-Prerequisite: MATH 094 or permission of the instructor. Basic principles of chemistry emphasizing how they apply to the Earth, its major components, and its ecosystems.

### CHEM 139—PREPARATION FOR INORGANIC CHEMISTRY

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: MATH 099 or 099B or equivalent with a grade of at least 2.0. This course is designed to prepare students for CHEM 140 by introducing problem-solving techniques, the metric system, measurements, atomic structure, stoichiometry, solution chemistry, bonding, and molecular shape. NOT transferable for credit for science or engineering students.

### CHEM 140—GENERAL INORGANIC CHEMISTRY

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: CHEM 139 with a grade of 2.0 or higher or successful completion of chemistry exam given by MESH and MATH 099 or 099B or equivalent with a grade of 2.0 or higher. Principles of chemistry including stoichiometry, enthalpy, atomic theory, gases, periodicity, chemical bonding.

### CHEM 141—GENERAL INORGANIC LABORATORY

Cr: 1 Wkly hrs: 3 hours Lab

NS-Prerequisite: CHEM 140 or concurrent enrollment in CHEM 140. Experiments illustrating general principles and quantitative relationships in chemistry.

### CHEM 150—GENERAL INORGANIC CHEMISTRY

Cr: 5 Wkly hrs: 5 hours Lecture

NS-Prerequisite: CHEM 140. Principles of chemistry, including the solid and liquid states, solutions, kinetics, equilibrium, thermodynamics, electrochemistry, acids, and bases.

### CHEM 151—GENERAL INORGANIC LABORATORY

Cr: 1 Wkly hrs: 3 hours Lab

NS-Prerequisite: CHEM 141, 150, or concurrent enrollment in CHEM 150. Experiments illustrating general principles and quantitative relationships in chemistry.

**CHEM 160—GENERAL INORGANIC CHEMISTRY****Cr: 3 Wkly hrs: 3 hours Lecture**

NS-Prerequisite: CHEM 150. Principles of chemistry relating to acid/base equilibrium systems, heterogeneous equilibrium systems, transition metal chemistry, electrochemistry and nuclear chemistry.

**CHEM 161—GENERAL INORGANIC LABORATORY****Cr: 3 Wkly hrs: 6 hours Lab**

NS-Prerequisite: CHEM 160 or concurrent enrollment in CHEM 160. Volumetric and Gravimetric experiments in quantitative analysis using computer acquisition and treatment of data. Qualitative analysis of solutions containing selected metallic ions and polyatomic anions using wet chemical methods as well as a computer simulation.

**CHEM 195—INDEPENDENT STUDY**

Can be offered as: CHEM 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**CHEM 199—PRACTICUM****Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**CHEM 240—ORGANIC CHEMISTRY****Cr: 4 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: CHEM 150. An introduction to the alkanes, alkenes, and alkynes. Includes discussions of structure, including stereochemistry, chemical and physical properties, and substitution/elimination mechanisms.

**CHEM 241—ORGANIC CHEMISTRY LABORATORY****Cr: 1 Wkly hrs: 3 hours Lab**

NS-Prerequisite: CHEM 240 or concurrent enrollment. Organic chemistry lab emphasizes mastery of techniques such as sample handling, filtration, measuring physical constants, recrystallization, extraction, GC, polarimetry, and refractometry.

**CHEM 250—ORGANIC CHEMISTRY****Cr: 4 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: CHEM 240. Deals with the structure, synthesis, and reactions of polymers, conjugated unsaturated molecules, aromatic compounds, phenols, organometallic compounds, aldehydes, and ketones. Introduces IR, NMR, and mass spectroscopy.

**CHEM 251—ORGANIC CHEMISTRY LABORATORY****Cr: 2 Wkly hrs: 4 hours Lab**

NS-Prerequisite: CHEM 250 or concurrent enrollment in CHEM 250. Organic chemistry lab emphasizes techniques such as simple, fractional, steam, and reduced pressure distillation; thin-layer, column, high-pressure liquid chromatography, and IR/NMR spectroscopy.

**CHEM 260—ORGANIC CHEMISTRY****Cr: 4 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: CHEM 250. The study of the structure and reaction of aldehydes, ketones, carboxylic acids and their derivatives, amines, B-dicarbonyl compounds, carbohydrates, lipids, and proteins.

**CHEM 261—ORGANIC CHEMISTRY LABORATORY****Cr: 3 Wkly hrs: 6 hours Lab**

NS-Prerequisite: CHEM 251, 260, or concurrent enrollment in CHEM 260. Students identify organic compounds using functional group analysis but with a heavy emphasis on instrumental analysis. A research project is also done.

**COMPUTER INFORMATION SYSTEMS****CMPTR 110—INFORMATION SYSTEMS CONCEPTS****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: ENGL 101 or concurrent enrollment. Fundamentals of information processing; file concepts; hardware and software; documentation standards.

**CMPTR 111—INTRODUCTION TO OPERATING SYSTEMS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 110 or concurrent enrollment. An overview of PC hardware and operating systems currently used with PC's, and hands-on training in Windows 98, DOS 7 and the UNIX operating systems, and Windows NT and Novell NetWare.

**CMPTR 112—INTRODUCTION TO WINDOWS****Cr: 1 Wkly hrs: 1 hour Lecture**

An introduction to Windows. Students will use Windows for simple applications. Textbook required. (Pass/No Credit)

**CMPTR 113—INTERNET BASICS****Cr: 1 Wkly hrs: 1 hour Lecture**

An introduction to the tools and strategies available to communicate, explore, and retrieve information using the resources of the Internet.

**CMPTR 115—INTRODUCTION TO THE INTERNET****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

An introduction to the tools and strategies available to communicate, explore, and retrieve information using the resources of the Internet.

**CMPTR 116—INTERNETWORKING I****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 112 or concurrent enrollment. The student will be introduced to and develop knowledge and skill in fundamental theory, design, planning and implementation of data communication networks working with industry standards and protocols.

**CMPTR 118—INTERNETWORKING II****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 116. The student will develop knowledge and skill in fundamental theory, design, planning and implementation of data communication networks working with industry standards and protocols.

**CMPTR 119—INTERNETWORKING III****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 118. The student will develop knowledge and skill in fundamental theory, design, planning and implementation of data communication networks working with industry standards and protocols.

**CMPTR 120—PROGRAMMING CONCEPTS****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 110 or concurrent enrollment in CMPTR 110 or permission of instructor. An introduction to programming concepts.

**CMPTR 122—APPLICATIONS FOR IT PROFESSIONALS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

This class is designed for CIS students to introduce them to common applications from an IT perspective. Students will use basic applications to prepare IT documentation.

**CMPTR 126—INTRODUCTION TO MS PUBLISHER****Cr: 1 Wkly hrs: 1 hour Lecture**

A practical, hands-on approach to using Microsoft Publisher for designing and creating newsletters, stationery, flyers, brochures, and other common business documents. Text required. (Pass/No Credit)(Same as OFTEC 126)

**CMPTR 127—INTRO TO MS WORD WORD PROCESSING****Cr: 1 Wkly hrs: 1 hour Lecture**

Understanding PC word processing; using MS Word for simple applications. Hands-on training in IBM-compatible PC lab. Textbook required. (Pass/No Credit)

**CMPTR 128—INTRODUCTION TO MS EXCEL****Cr: 1 Wkly hrs: 1 hour Lecture**

Understanding PC spreadsheet programs; an introduction to MS Excel. Students will use Excel for simple applications. Textbook required. (Pass/No Credit)

**CMPTR 129—MS EXCEL ADVANCED****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: OFTEC 152 or pass MOUS Excel proficiency or permission of instructor. Comprehensive approach to learning the advanced commands in MS Excel 2000. Prepares completers to utilize Excel in business settings and over the web or pass the MOUS Excel Expert Exam. (Same as OFTEC 129)

**CMPTR 130—INTRODUCTION TO PERSONAL COMPUTERS****Cr: 1 Wkly hrs: 1 hour Lecture**

An introduction to personal computers for first-time users. Microcomputer terminology; PC hardware options; PC DOS operating systems. (Pass/No Credit)

**CMPTR 133—INTRO TO WORDPERFECT WORD PROCESSING****Cr: 1 Wkly hrs: 1 hour Lecture**

Understanding PC word processing using WordPerfect for simple applications. Hands-on training in IBM-compatible PC lab. Textbook required. (Pass/No Credit)

**CMPTR 135—WORDPERFECT BASICS****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

A practical, hands-on approach to WordPerfect 8.0 Windows for the non-professional word processor. (Same as OFTEC 135)

**CMPTR 137—INTRODUCTION TO MICROSOFT POWERPOINT****Cr: 1 Wkly hrs: 1 hour Lecture**

Planning, creating, and displaying Microsoft PowerPoint presentations. Introduction to presentation software. Textbook Required. (Pass/No Credit)

**CMPTR 141—MS WORD BASICS****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: CMPTR 150 or permission of instructor. Comprehensive approach to learning the basic commands in MS Word 2000. Prepares completers to utilize Word in business settings or pass the MOUS Word Core Exam. (Same as OFTEC 141)

**CMPTR 142—MICROSOFT PUBLISHER BASICS****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 110 or equivalent proficiency. Develop industry-standard desktop publishing skills with a practical, hands-on approach to Microsoft Publisher. Design and create newsletters, stationery, flyers, brochures, and other common business documents. Emphasis on problem solving, publication design, and proofreading/editing skills. (Same as OFTEC 142)

**CMPTR 145—INTRODUCTION TO C LANGUAGE****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 120 with a grade of 2.0 or above or permission of instructor and concurrent enrollment in CMPTR 200. Writing C programs utilizing programming concepts obtained from CMPTR 120. Introducing c syntax for program control, functions, arrays, pointers, and string manipulation.

**CMPTR 148—DESKTOP PUBLISHING WITH PAGEMAKER****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

A practical, hands-on approach to desktop publishing using PageMaker software. An introduction to the principles of desktop publishing to the functionality of PageMaker, from creating masterpages and templates to implementing basic design concepts to create effective publications. (Same as TEC-D 148) (Formerly CMPTR 138)

**CMPTR 150—SURVEY/MICROCOMPUTING—PERSONAL CMPTR****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

An introduction to microcomputers for non-computer majors. Selecting and buying personal computers. Using word processing, spreadsheet, and database software.

**CMPTR 154—INTRODUCTION TO MS ACCESS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: Windows skills and a prior computer class or permission of instructor. Design and development of practical database systems using MS Access. Overview of database models and file structures. Development of practical applications using MS Access.

**CMPTR 165—INTRODUCTION TO VISUAL BASIC I****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 145 or permission of instructor. An introduction to applications development for the Windows environment using Visual Basic.

**CMPTR 172—PC HARDWARE BASICS****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 111. This course is designed to give the student a basic knowledge of hardware and software configurations. It includes the installation of various peripheral devices as well as basic system hardware components.

**CMPTR 173—INTRODUCTION TO TCP/IP****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Permission of instructor. This course is designed to give an understanding of the TCP/IP suite and the details of its implementation. The details of implementation are treated by discussing IP addressing, the structure of frames and protocol headers that enable communication between two computers.

**CMPTR 174—FUNDAMENTALS OF UNIX****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 110, CMPTR 111. The course will offer Cisco Networking Academy students the option to explore the fundamentals of UNIX, including command-line features including file system navigation, file permissions, the vi text editor, command shells and basic network use.

**CMPTR 182—NETWORKING CONCEPTS****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 111 or permission of instructor or concurrent enrollment. This course is designed to introduce LAN/WAN terminology, design, topologies protocols, various network hardware components, software, cabling and connectivity.

**CMPTR 185—IT USER SUPPORT FUNDAMENTALS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 110; CMPTR 111; ENGL 101; CMPTR 172. Introduce students to the basics of delivering computer user support within an organization. Provide the "soft skills" and the "self-management skills" needed at the help desk while enhancing the knowledge, proficiency, and abilities necessary in the user support arena.

**CMPTR 195—INDEPENDENT STUDY**

Can be offered as: CMPTR 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**CMPTR 200—PROGRAMMING LABORATORY****Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Concurrent enrollment in CMPTR 145. Students meet in lab to design, develop, and test programs assigned in the programming course being taken concurrently.

**CMPTR 201—NETWORKING LABORATORY****Cr: 1-5 Wkly hrs: 10 hours Lab**

Prerequisite: Concurrent enrollment in any one of the following courses: CMPTR 116, 172, 261, 262 and 283 or permission of instructor. Students meet in lab to plan, develop, and test exercises and hands-on projects assigned in networking course(s) being taken concurrently.

**CMPTR 215—WORLD WIDE WEB PAGE DEVELOPMENT****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: Knowledge of Microsoft Windows 95 or later; competent keyboard skills. Learning and using HTML to develop web pages with color, images, tables, frames, forms, audio, video, and Java applet components. CGI, Perl, Java, JavaScript, and HTML editors are discussed, but not used. Several web pages are created including a personal web page. The student learns how to transfer web pages to a web server with FTP.

**CMPTR 216—INTERNETWORKING IV****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 119. The student will develop knowledge and skill in fundamental theory, design, planning and implementation of data communication networks working with industry standards and protocols.

**CMPTR 217—WEB DATABASES****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 215 and CMPTR 218 with a grade of 2.0 or above or permission of instructor. Interface web pages to relational databases using webpage industry software tools.

**CMPTR 218—WEB PAGE SCRIPTING LANGUAGES****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 215 and either CMPTR 120 or CMPTR 145 or their equivalent, all with a grade of 2.0 or above, or permission of instructor. WWW Client-and server-side programming using the scripting languages and environments of VBScript, JavaScript, and Active Server Pages; students build interactive Web pages.

**CMPTR 220—VISUAL BASIC II****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: CMPTR 165 or permission of instructor. Intermediate applications development for the Windows environment using Visual Basic programming language.

**CMPTR 225—ADVANCED C LANGUAGE****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 145 with a grade of 2.0 or above or permission of instructor. Writing C programs utilizing data structure concepts, bit manipulation, and unions. Continued use of structures and functions learned in CMPTR 145.

**CMPTR 230—PROGRAMMING WITH COBOL****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 145 with a grade of 2.0 or above or permission of instructor. Writing and testing programs using structured COBOL. Objectives include arithmetic operations, report formatting, character manipulation, table handling, copy, call, sort, batch, and interactive file processing.

**CMPTR 235—MS WORD ADVANCED****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 141, or pass MOUS Word proficiency or permission of instructor. Comprehensive approach to learning the advanced commands in MS Word 2000. Prepares completers to utilize Word in business settings and on the web or pass the MOUS Word Expert Exam. (Same as OFTEC 235)

**CMPTR 245—STRUCTURED ANALYSIS AND DESIGN****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: ENGL 101 and CMPTR 145 with a grade of 2.0 or above or concurrent enrollment in CMPTR 145 or permission of instructor. Structured analysis and design theory with an introduction to "logical" data and process modeling and "physical" data and process modeling.

**CMPTR 250—SQL****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: CMPTR 145 or permission of instructor. Understand DDL and DML—what they are and how to use them. Create, manipulate, and query system data.

**CMPTR 254—PROGRAMMING WITH MS ACCESS**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 154 and CMPTR 165 or permission of instructor. Design and development of practical database systems using the MS Access Basic programming language. Development of practical applications using MS Access Basic.

**CMPTR 256—ORACLE DESIGNER**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 245 or permission of instructor. Process modeling including organizational units, flows, triggers, and outcomes. System modeling to include ER model, functional hierarchy, and DFD's. System design to include DB design, generating DDL, module design and generating forms (screens) and reports.

**CMPTR 261—OPERATING SYSTEMS/UNIX**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 111 and 145 with a grade of 2.0 or above or permission of instructor. An introduction to the Unix operating system and Unix system administration.

**CMPTR 262—UNIX ADMINISTRATION**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

A practice-based course designed to prepare users to administer UNIX-based systems in a networked, client-server environment.

**CMPTR 265—PL SQL**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 250. Write PL SQL code to create Oracle forms, reports, and modules.

**CMPTR 275—ORACLE DEVELOPER**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 256 or permission of instructor. Create Oracle forms and reports.

**CMPTR 280—DATABASE ADMINISTRATION**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 256 or permission of instructor. Learn daily operations of a DBA including backup and recovery strategies and database maintenance.

**CMPTR 283—NOVELL LAN ADMINISTRATION I**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 111 and CMPTR 172 with a grade of 2.0 or above and keyboarding skills of 20 WPM or permission of instructor and concurrent enrollment in CMPTR 116. Administration of a Local Area Network using the current version of Novell's Network Operating System. Includes planning and managing file systems, logins, security, servers, print servers, and system backup.

**CMPTR 284—LAN SERVICE AND SUPPORT NETWORK 4.1**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 283 with a grade of 2.0 or above and keyboarding skills of 20 wpm or permission of instructor. Planning LAN configurations (topologies, protocols, internetworking). Installing and troubleshooting LAN systems using NetWare 4.1.

**CMPTR 285—OBJECT ORIENTED PROGRAMMING WITH C++**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 145 with a grade of 2.0 or above, or permission of instructor. Writing object oriented programs utilizing C++. Introduces concepts of data abstraction, data classes, and polymorphism.

**CMPTR 288—MANAGING LARGE LAN/WANS**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 291 or permission of instructor or concurrent enrollment. This course was designed to provide for planning, trusts, domain models, user and group management, resource management, connectivity and overall domain management in a large-scale environment using NT Server 4.0.

**CMPTR 289—INTRODUCTION TO A WEB SERVER**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 291 or permission of instructor or concurrent enrollment. This course is designed to introduce Microsoft Windows Internet Information Server. Installation, configuration, file management, connectivity, interoperability, and web site management will be the focus of this course.

**CMPTR 290—MICROSOFT LAN ADMINISTRATION I**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 111, 172 or permission of instructor. This course is designed to introduce the most current Microsoft network operating system. It will also introduce file manipulation, disaster recovery, application support, security, file structures, installations and configuration of protocols using the most current Microsoft Network Operating System.

**CMPTR 291—MICROSOFT LAN ADMINISTRATION II**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: CMPTR 116 and CMPTR 290 and CMPTR 111 and CMPTR 172. This course is designed to introduce advanced LAN management, services, planning, security, resource management, and performance and network monitoring, system policies, backups and disaster recovery using Microsoft's most recent Network Operating System.

**CMPTR 292—INTRODUCTION TO JAVA**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 285 or equivalent or permission of instructor. An introduction to applications development for Windows and the Web using Java applications and applets.

**COOPERATIVE EDUCATION****CO-OP 111—COOPERATIVE EDUCATION SEMINAR I**

Cr: 2 Wkly hrs: 2 hours Lecture

Prerequisite: Concurrent enrollment with first quarter of Co-op Work Experience. Course introduces application of critical job skills to support success in Co-op Work Experience.

**CO-OP 120—TRANSITION TO WORK**

Cr: 3 Wkly hrs: 2 hours Lecture  
3 hours Clinic

A work-based learning course that prepares students for employment.

**CO-OP 121—COOPERATIVE WORK EXPERIENCE**

Can be offered as: CO-OP 121/122/123/124.

Cr: 1-13 Wkly hrs: 39 hours Clinic

Prerequisite: Co-op Seminar concurrent with first quarter work experience. Contracted work experience coordinated with employer, faculty, and student to meet learning objectives specific to the work site and occupation/trade.

**CO-OP 189A—COMMUNITY VOLUNTEER SERVICES**

Can be offered as: CO-OP 189A/189B/189C.

Cr: 2 Wkly hrs: 6 hours Clinic

Course utilizes cooperative education to enable students to experience volunteerism as a central component of life and career planning.

**CO-OP 221—COOPERATIVE WORK EXPERIENCE**

Can be offered as: CO-OP 221/222/223/224.

Cr: 1-13 Wkly hrs: 39 hours Clinic

Prerequisite: Permission of cooperative education coordinator and current enrollment in Co-op Seminar. Contracted work experience coordinated with employer, faculty, and student to meet specific learning objectives for second-year Co-op students.

**CO-OP 225—COOPERATIVE WORK EXPERIENCE**

Can be offered as: CO-OP 225/226/227/228.

Cr: 1-13 Wkly hrs: 39 hours Clinic

Prerequisite: Permission of cooperative education coordinator and current enrollment in Co-op Seminar. Contracted work experience coordinated with employer, faculty and student to meet specific learning objectives for second-year Co-op students.

**CO-OP 289A—COMMUNITY VOLUNTEER SERVICES**

Can be offered as: CO-OP 289A/289B/289C.

Cr: 3 Wkly hrs: 9 hours Clinic

Course utilizes cooperative education to enable students to experience volunteerism as a central component of life and career planning.

**COSMETOLOGY****COSME 121—SKIN/SCALP/HAIR ANALYSIS AND CARE**

Cr: 2 Wkly hrs: 2 hours Lecture

Prerequisite: Instructor approval. Learn about the composition, structure, growth, and replacement of hair; how skin is nourished; nerves and glands contained in skin; skin disorders; care of hair and scalp; procedures for shampooing; and scalp manipulations.

**COSME 122—WET HAIRSTYLING/BRAIDS/WIGS/EXTS I**

Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study the definitions related to hair styling, various types of curls, rollers and effects created, wig measurement and styling. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 123—WET HAIRSTYLING/BRAIDS/WIGS/EXTS II**

Cr: 4 Wkly hrs: 2 hours Lab  
9 hours Clinic

Prerequisite: Previous or concurrent enrollment in COSME 122 and instructor approval. Study the definitions related to hair styling, various types of curls, rollers and effects created, wig measurement and styling. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 124—WET HAIRSTYLING/BRAIDS/WIGS/EXTS III****Cr: 3 Wkly hrs: 9 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 123 and instructor approval. Study the definitions related to hair styling, various types of curls, rollers and effects created, wig measurement and styling. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 125—THERMAL STYLING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study the use of various techniques in thermal curling and blow drying. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 126—THERMAL STYLING II****Cr: 2 Wkly hrs: 2 hours Lab  
3 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 125 and instructor approval. Study the use of various techniques in thermal curling and blow drying. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 127—HAIR CUTTING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study the definitions, the use of implements, and recognizing angles in relationship to hair cutting. Includes hands-on learning and practice in hair cutting. Perform skin/scalp/hair analysis and care.

**COSME 128—HAIR CUTTING II****Cr: 3 Wkly hrs: 2 hours Lab  
6 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 127 and instructor approval. Study the definitions, the use of implements, and recognizing angles in relationship to hair cutting. Includes hands-on learning and practice in hair cutting. Perform skin/scalp/hair analysis and care.

**COSME 129—HAIR CUTTING III****Cr: 4 Wkly hrs: 2 hours Lab  
9 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 128 and instructor approval. Study the definitions, the use of implements, and recognizing angles in relationship to hair cutting. Includes hands-on learning and practice in hair cutting. Perform skin/scalp/hair analysis and care.

**COSME 130—PERMANENT WAVING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study the theory and use of chemicals related to permanent waving and the sanitation, safety, and first aid related to chemical services. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 131—PERMANENT WAVING II****Cr: 5 Wkly hrs: 4 hours Lab  
9 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 130 and instructor approval. Study the theory and use of chemicals related to permanent waving and the sanitation, safety, and first aid related to chemical services. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 132—PERMANENT WAVING III****Cr: 5 Wkly hrs: 15 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 131 and instructor approval. Study the theory and use of chemicals related to permanent waving and the sanitation, safety, and first aid related to chemical services. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 133—CHEMICAL RELAXING I****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study the use of chemical relaxers, the differences between various relaxers and the sanitation, safety, and first aid procedures related to chemical services. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 134—CHEMICAL RELAXING II****Cr: 4 Wkly hrs: 1 hour Lecture  
2 hours Lab  
6 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 133 and instructor approval. Study the use of chemical relaxers, the differences between various relaxers and the sanitation, safety, and first aid procedures related to chemical services. Includes hands-on learning and practice. Perform skin/scalp/hair analysis and care.

**COSME 135—HAIR COLOR SEMI/BLEACHING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 121 and instructor approval. Study haircoloring and lightening definitions, application of temporary, semi-permanent, permanent tints and various lightening procedures and sanitation, safety, and first aid related to chemical services. Includes hands-on training and practice. Perform skin/scalp/hair analysis and care.

**COSME 136—HAIR COLOR SEMI/BLEACHING II****Cr: 3 Wkly hrs: 1 hour Lecture  
6 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 135 and instructor approval. Study haircoloring and lightening definitions, application of temporary, semi-permanent, permanent tints and various lightening procedures and sanitation, safety, and first aid related to chemical services. Includes hands-on training and practice. Perform skin/scalp/hair analysis and care.

**COSME 137—HAIR COLOR SEMI/BLEACHING III****Cr: 3 Wkly hrs: 1 hour Lecture  
6 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 136 and instructor approval. Study haircoloring and lightening definitions, application of temporary, semi-permanent, permanent tints and various lightening procedures and sanitation, safety, and first aid related to chemical services. Includes hands-on training and practice. Perform skin/scalp/hair analysis and care.

**COSME 138—MANICURING & PEDICURING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Study the care of the nails on the hands and feet and the proper sanitation, safety, and first aid procedures in relation to care of the nails. Includes hands-on learning and practice.

**COSME 139—MANICURING & PEDICURING II****Cr: 2 Wkly hrs: 1 hour Lecture  
3 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 138 and instructor approval. Study the care of the nails on the hands and feet and the proper sanitation, safety, and first aid procedures in relation to care of the nails. Includes hands-on learning and practice.

**COSME 140—APPLICATION OF ARTIFICIAL NAILS****Cr: 4 Wkly hrs: 1 hour Lecture  
6 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 138 and instructor approval. Study the proper application and removal of various types of artificial nails and the related sanitation, safety, and first aid procedures. Includes hands-on training and practice.

**COSME 141—SKIN CARE AND MAKE-UP I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Study massage techniques for the face and neck, products for different types of skin, techniques in make-up application, skin and color analysis, and safety and sanitation related to skin care and make-up application.

**COSME 142—SKIN CARE AND MAKE-UP II****Cr: 4 Wkly hrs: 2 hours Lab  
9 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 141 and instructor approval. Study massage techniques for the face and neck, products for different types of skin, techniques in make-up application, skin and color analysis and safety and sanitation related to skin care and make-up application.

**COSME 143—SALON ETHICS/LAWS/MANAGEMENT I****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Instructor approval. Study State Board regulations; professional ethics; salon planning and management; interrelations with patrons, co-workers, and employers; and job resume' and application skills. Includes hands-on training and practice.

**COSME 144—SALON ETHICS/LAWS/MANAGEMENT II****Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 143 and instructor approval. Study State Board regulations; professional ethics; salon planning and management; interrelations with patrons, co-workers, and employers; job resume' and application skills. Includes hands-on training and practice.

**COSME 145—SALON ETHICS/LAWS/MANAGEMENT III****Cr: 1 Wkly hrs: 3 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 144 and instructor approval. Study State Board regulations; professional ethics; salon planning and management; interrelations with patrons, co-workers, and employers; job resume' and application skills. Includes hands-on training and practice.

**COSME 146—DESK/PHONE/DISPENSARY I****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Instructor approval. Study proper customer relations at the desk and on the phone, booking appointments, preparing daily reports, balancing tickets and till, and job resume' and application skills. Learn to fill, label, and dispense chemicals accurately using the proper procedures.

**COSME 147—DESK/PHONE/DISPENSARY II****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: Previous or concurrent enrollment in COSME 146 and instructor approval. Study proper customer relations at the desk and on the phone, booking appointments, preparing daily reports, balancing tickets and till, and job resume' and application skills. Learn to fill, label, and dispense chemicals accurately using the proper procedures.

**COSME 148—DESK/PHONE/DISPENSARY III****Cr: 2 Wkly hrs: 6 hours Clinic**

Prerequisite: Previous or concurrent enrollment in COSME 147 and instructor approval. Study proper customer relations at the desk and on the phone, booking appointments, preparing daily reports, balancing tickets and till, and job resume' and application skills. Learn to fill, label, and dispense chemicals accurately using the proper procedures.

**COSME 199—PRACTICUM****Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**COSME 200—METHODS OF TEACHING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Training in instructional methods. Will cover lesson planning and student learning principles.

**COSME 201—METHODS OF TEACHING II****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Training in instructional methods. Will cover classroom management, four-step instructional method, and occupational analysis.

**COSME 202—COURSE ORGANIZATION I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Training in instructional methods. Will cover development of instruction from analysis to organizing and prioritizing.

**COSME 203—COURSE ORGANIZATION II****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Training in instructional methods. Will cover use of group and sequence learning units, testing and evaluating, and teaching aids.

**COSME 204—STUDENT LEADERSHIP DEVELOPMENT I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Training in instructional methods. Will cover how to be effective in student leadership development. Learn about student leadership organizations.

**COSME 205—STUDENT LEADERSHIP DEVELOPMENT II****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Training in instructional methods. Will cover student leadership development issues regarding personality, conduct, interpersonal relationships and customer relationships.

**COSME 206—TESTING AND RATING****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Training in development of student tests to provide accuracy in measuring achievement of cosmetology skills and the acquiring of subject-matter knowledge.

**COSME 207—AUDIO VISUAL MATERIALS****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Learn about the use of audio-visual aids. Understand the importance of utilizing a variety of creative and innovative methods of teaching to keep student interest high.

**COSME 208—PHILOSOPHY OF VOCATIONAL EDUCATION****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Learn ideas to employ to create the proper atmosphere for learning. Identify common discipline problems and discuss effective approaches to those problems.

**COSME 209—TECHNIQUES/INDIVIDUALIZED INSTRUCTION****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Learn to make the learning process real and productive by employing relevant and effective teaching methods.

**COSME 210—CLINICAL SUPERVISION & MANAGEMENT I****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Training in clinical supervision and management covering the application of teaching techniques for practical classroom and clinic services.

**COSME 211—CLINICAL SUPERVISION & MANAGEMENT II****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Training in clinical supervision and management covering the application of teaching techniques for safety in the storage, mixing, and use of chemicals.

**COSME 212—CLINICAL SUPERVISION & MANAGEMENT III****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Training in clinical supervision and management covering the application of teaching techniques for student practical assignments, motivational supervision, and student assistance.

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**EARLY CHILDHOOD EDUCATION****ECE 101—PRACTICUM I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: ECE 170, ECE 171. Introductory level practical application in the working world of the basic theories and methods studied in the Early Childhood Education program.

**ECE 115—INTRODUCTION TO CHILD CARE****Cr: 2 Wkly hrs: 2 hours Lecture**

Meets initial training requirements outlined by the Washington State Training and Registry System (STARS). Topics include an overview of best practices related to child development, child guidance, health and safety.

**ECE 150—THE EXCEPTIONAL CHILD****Cr: 3 Wkly hrs: 3 hours Lecture**

Explore research, educational trends, early intervention, resources, and strategies for the inclusion of young children with disabilities and their families in education and our community.

**ECE 151—PRACTICUM II****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: ECE 101, or permission of instructor. Intermediate level practical application in the working world of theories and methods studied in the Early Childhood program.

**ECE 151A—PRACTICUM II****Cr: 1-5 Wkly hrs: 10 hours Lab**

Prerequisite: ECE 101, or permission of instructor. Intermediate level practical application in the working world of theories and methods studied in the Early Childhood program.

**ECE 155—APPLIED CHILD DEVELOPMENT****Cr: 3 Wkly hrs: 3 hours Lecture**

Provides an overview of typical developmental sequences and conditions impacting development and prepares ECE certificate students to provide developmentally appropriate care for children from birth through 8 years.

**ECE 160—CARING FOR SCHOOL AGE CHILDREN****Cr: 3 Wkly hrs: 3 hours Lecture**

The basics of quality child care programs for children ages 5-12, including developmental profiles of the school age child, planning, budgeting, program setup, curriculum, and resources.

**ECE 163—INFANT/TODDLER CAREGIVING, CURRICULUM****Cr: 3 Wkly hrs: 3 hours Lecture**

The basics of quality infant and toddler child care programs: Current issues and trends, history, developmental profiles, individualized programming environments, appropriate curriculum, and guidance strategies.

**ECE 165—SPECIAL TOPICS/EARLY CHILD CURRICULUM****Cr: 1-5 Wkly hrs: 5 hours Lecture**

This course focuses on current research methods and skills necessary for teachers to develop age and culturally appropriate curriculums and systematically evaluate children's learning.

**ECE 166—ENVIRONMENTS FOR CHILDREN****Cr: 1 Wkly hrs: 1 hour Lecture**

The adults' role in designing, evaluating and improving environments to ensure a quality experience for children and to optimize learning and development. (Pass/No Credit)

**ECE 170—INTRO TO EARLY CHILDHOOD EDUCATION****Cr: 2 Wkly hrs: 2 hours Lecture**

History/philosophy of early childhood education; description of pre-school age child; suitable activities, equipment, and environment (both physical and interpersonal).

**ECE 171—DIRECTED OBSERVATION****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Concurrent enrollment in ECE 170. Techniques of observing, recording, and analyzing children's behavior with actual practice in local preschool groups.

**ECE 173—ART AND CREATIVE ACTIVITIES****Cr: 3 Wkly hrs: 3 hours Lecture**

Children's art and the development of the young child. Developmentally appropriate methods of planning and implementing creative activities in all areas of the ECE curriculum.

**ECE 176—MUSIC FOR YOUNG CHILDREN****Cr: 3 Wkly hrs: 3 hours Lecture**

A course for teachers and child care providers which addresses body rhythms, songs, sounds, instruments, records, and musical environments suitable for young children.

**ECE 177—SCIENCE AND MATH FOR YOUNG CHILDREN****Cr: 3 Wkly hrs: 3 hours Lecture**

Course focuses on the role of math and science in the education/development of the young child, including an overview of cognitive characteristics, appropriate materials, and activity ideas.

**ECE 178—LITERATURE FOR YOUNG CHILDREN****Cr: 2 Wkly hrs: 2 hours Lecture**

An introduction to literature for young children, its use in supporting the curriculum of the ECE program, choosing appropriate literature, and environmental considerations.

**ECE 179—LANGUAGE AND LITERACY DEVELOPMENT****Cr: 2 Wkly hrs: 2 hours Lecture**

Language development of the preschool age child and strategies and methods for encouraging and supporting the development of emerging literacy in ECE environments.

**ECE 182—PHYSICAL EDUCATION FOR YOUNG CHILDREN****Cr: 1 Wkly hrs: 1 hour Lecture**

Course covers the sequence of physical and motor development as well as activities and equipment to promote optimum physical development.

**ECE 184—HEALTH, SAFETY AND NUTRITION****Cr: 3 Wkly hrs: 3 hours Lecture**

The course is designed for teachers and child care providers. It covers state regulations and developmentally appropriate practices in health, safety, and nutrition for young children.

**ECE 185—GUIDANCE AND LEADERSHIP****Cr: 3 Wkly hrs: 3 hours Lecture**

Child guidance techniques and methods of working with adults in early childhood settings. Focus on implementing a positive, child-centered, problem-solving interpersonal environment.

**ECE 186—SURVEY OF CENTERS****Cr: 1-2 Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Provides the student with opportunity to read about and visit various programs. After exposure to different philosophies, students will be expected to develop their own.

**ECE 187—SPECIAL TOPICS—CDA CREDENTIAL I****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Permission of instructor. This course covers basics of physical, social, emotional, and intellectual development, and observing/recording child behavior and growth necessary to obtain the Child Development Associate (CDA) Credential. (Pass/No Credit)

**ECE 187A—SPECIAL TOPICS—CDA CREDENTIAL I****Cr: 1-6 Wkly hrs: 12 hours Lab**

Prerequisite: Permission of instructor. This course covers basics of physical, social, emotional, and intellectual development and observing/recording child behavior and growth necessary to obtain the Child Development Associate (CDA) Credential. (Pass/No Credit)

**ECE 188—CHILD ABUSE AND NEGLECT****Cr: 2 Wkly hrs: 2 hours Lecture**

Course focuses on the current research and theory in child abuse and neglect causation and prevention with emphasis on child welfare practices in Washington State.

**ECE 189—FAMILY CHILD CARE MANAGEMENT****Cr: 3 Wkly hrs: 3 hours Lecture**

An introduction to home child care programs including licensing, business management, parent/provider relations, health, safety, child growth and guidance, curriculum, and environment.

**ECE 190—MULTICULTURAL EDUCATION****Cr: 3 Wkly hrs: 3 hours Lecture**

This course will provide education and training in developing multicultural/antibias curricula in early childhood programs and challenging stereotypes related to sex, ethnicity, and disabilities.

**ECE 191—PROFESSIONALISM/PROGRAM MANAGEMENT****Cr: 2 Wkly hrs: 2 hours Lecture**

Introduces the management of early childhood programs as it relates to staff development and professionalism.

**ECE 195—INDEPENDENT STUDY**

Can be offered as: ECE 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ECE 199—PRACTICUM**

Can be offered as: ECE 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**ECE 201—PRACTICUM III****Cr: 1-5 Wkly hrs: 10 hours Lab**

Prerequisite: Completion of ECE 101, ECE 151, or permission of instructor. Students apply cumulative knowledge to practice skills with children and professional interactions with families and staff in a developmentally appropriate early childhood setting.

**ECE 210—WORKING WITH PARENTS/EARLY CHILDHOOD****Cr: 3 Wkly hrs: 3 hours Lecture**

An exploration of theory, research, and practical applications of parent involvement in ECE settings, current practices building parent/teacher team relationships, and parent education methods.

**ECE 215—ECE PROFESSIONAL PORTFOLIO****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: A minimum of 30 credits in ECE and permission of instructor. A seminar to develop an individual professional portfolio documenting essential areas of study in early childhood education and to plan short and long term professional improvement goals. Required of all ATA graduates.

**ECE 225—ISSUES AND TRENDS IN ECE****Cr: 3 Wkly hrs: 3 hours Lecture**

Current issues and trends impacting the Early Childhood field. The history/philosophy of ECE, national/international developments, concerns facing teachers, families, children, and society today.

**ECE 228—MENTORING IN EARLY CHILDHOOD****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Student must have completed at least 12 credits in ECE or permission of instructor. Course designed for supervisors, trainers, and other adults mentoring staff in early childhood programs; focus is on strategies to help adults become more effective practitioners in ECE settings. (Pass/No Credit)

**ECE 250—INFANT-TODDLER INTERNSHIP SEMINAR****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: ECE 163 and ECE 170, or permission of instructor. Concurrent enrollment in ECE 251. Discuss, plan, and evaluate the fundamentals of infant/toddler caregiving. Seminar, assignments, and discussions will be based on theories and methods in early childhood education birth to age three best practices.

**ECE 251—INFANT-TODDLER INTERNSHIP****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: ECE 163, ECE 170, or permission of instructor. Concurrent enrollment in ECE 250. Intermediate level of practical application in the working world of the theories and methods studied in the Early Childhood Education programs. Students will work in infant-toddler settings with children ages 0-3.

**ECE 263—RELATIONSHIP FOCUSED CARE, BIRTH-3****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: ECE 163, ECE 170 or permission of instructor. Focus on infant/toddler social emotional development attachment, nurturing relationships and appropriate environments. This class will provide caregivers of young children with background knowledge that will result in optimal programming. The course will focus on developmental challenges of this age period.

**ECE 280—SPECIAL EDUCATION FIELD EXPERIENCE****Cr: 1-5 Wkly hrs: 10 hours Lab**

Prerequisite: ECE 150 or PARED 140 and at least two ECE curriculum courses. This course helps students to develop skills to work with children with special needs and to develop curricula that will foster positive developmental outcomes. (Same as PARED 280)

**ECE 287—SPECIAL TOPICS—CDA CREDENTIAL II****Cr: 1-6 Wkly hrs: 6 hours Lecture**

Prerequisite: Permission of instructor. This course covers basics of program operation/management, professionalism, productive relationships with families, and safe/healthy environments necessary to obtain the Child Development Associate (CDA) Credential. (Pass/No Credit)

**ECE 287A—SPECIAL TOPICS—CDA CREDENTIAL II****Cr: 1-6 Wkly hrs: 12 hours Lab**

Prerequisite: Permission of instructor. This course covers basics of program operation/management, professionalism, productive relationships with families, and safe/healthy environments necessary to obtain the Child Development Associate (CDA) Credential. (Pass/No Credit)

## EDUCATION

### EDUC 101—INTRODUCTION TO EDUCATION

Cr: 5 Wkly hrs: 5 hours Lecture

SS-Introduction to the role of education in society and its sociological and psychological aspects; an orientation to the personal, academic, and professional requisites that contribute to success.

### EDUC 105—ART IN THE ELEMENTARY SCHOOL

Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

Teaching practices in the elementary school with design principles as the basis of understanding the creative process. (Same as ART 113)

### EDUC 110—READING TECHNIQUES/THE AT-RISK CHILD

Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

This course is a good exploratory elective for people considering a teaching career and provides an exposure to basic tutorial strategies for use in a K-8 setting.

### EDUC 114—ART IN THE SECONDARY SCHOOL

Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab

Teaching visual art practices in the secondary school with design principles as the basis of understanding the creative process. (Same as ART 114)

### EDUC 195—INDEPENDENT STUDY

Can be offered as: EDUC 095/195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

### EDUC 199—PRACTICUM

Can be offered as: EDUC 199/299.

Cr: 1-5 Wkly hrs: 10 hours Lab

A practical application in the working world of the basic theories studied in the above program or discipline.

### EDUC 275—VOCATIONAL ED ELEMENTS OF INSTRUCTION

Cr: 3 Wkly hrs: 3 hours Lecture

Qualify for vocational teaching certificate. Principles of learning, basic teaching techniques, methods of instruction, preparing lessons, evaluation and records.

### EDUC 276—VOCATIONAL ED OCCUPATIONAL ANALYSIS

Cr: 3 Wkly hrs: 3 hours Lecture

Prerequisite: EDUC 275 or permission of instructor. Second course in vocational certification series: Principles and techniques of occupational analysis and the integration of occupational analysis into instruction.

### EDUC 277—VOCATIONAL ED COURSE ORGANIZATION

Cr: 3 Wkly hrs: 3 hours Lecture

Prerequisite: EDUC 276 or permission of instructor. Third course in vocational certification series: Principles, strategies, and techniques of learner centered instruction.

### EDUC 285—COMPETENCY BASED CURRICULUM/CBE

Cr: 3 Wkly hrs: 3 hours Lecture

Course is intended for teachers. The basics of Competency Based Education will be covered. Designed to meet the needs of instructors adapting programs or curricula to CBE format.

## ELECTRONICS

### ELECT 101—DIRECT CURRENT

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: MATH 094 or equivalent. Fundamentals of direct current from Ohm's Law through network theorems.

### ELECT 102—ALTERNATING CURRENT

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 101 or equivalent. Principles of inductance, capacitance, impedance, resonance, and filters.

### ELECT 103—INTRODUCTION TO SOLID-STATE

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 102 or equivalent. Introduction to the fundamentals of diode and bipolar transistor theory.

### ELECT 106—ELECTRONIC FABRICATION

Cr: 1 Wkly hrs: 2 hours Lab

Basic skill development through hands-on practice is emphasized covering such topics as soldering techniques and circuit board assembly.

### ELECT 111—DIRECT CURRENT CIRCUIT LABORATORY

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: Concurrent enrollment in ELECT 101. Laboratory practice and experimentation in elementary circuitry using basic electronic instrumentation.

### ELECT 112—ALTERNATING CURRENT CIRCUIT LAB

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: Concurrent enrollment in ELECT 102. Practice in the application of AC concepts: Techniques in using electronic instruments such as oscilloscopes, digital multimeters, frequency counters, and Z meters.

### ELECT 113—BASIC SOLID-STATE LABORATORY

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: Concurrent enrollment in ELECT 103. Application of diodes and transistors in electronic circuits.

### ELECT 160—COMPUTER APPLICATIONS I

Cr: 2 Wkly hrs: 2 hours Lecture

Prerequisite: Must be taken concurrently with ELECT 101. Practice in the application of typical data processing operations for solving direct current problems.

### ELECT 165—INTRODUCTION TO DIGITAL LOGIC

Cr: 4 Wkly hrs: 4 hours Lecture

Prerequisite: ELECT 102. Introduction to the theory, practices, and application of digital electronics.

### ELECT 166—INTRODUCTION TO DIGITAL LOGIC LAB

Cr: 2 Wkly hrs: 4 hours Lab

Prerequisite: Concurrent enrollment in ELECT 165. Introduction to the theory, practices, and applications of digital electronics. Theoretical concepts and troubleshooting techniques are demonstrated through laboratory experiments.

### ELECT 170—COMPUTER APPLICATIONS II

Cr: 2 Wkly hrs: 2 hours Lecture

Prerequisite: Must be taken concurrently with ELECT 102. Course helps familiarize the student with the use of personal computers, the school's computer labs, and using computers to solve electronic-related problems.

### ELECT 195—INDEPENDENT STUDY

Can be offered as: ELECT 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

### ELECT 201—SOLID-STATE DEVICES

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: Concurrent enrollment in ELECT 211. Continuation of solid-state theory, use of approximation techniques in circuit analysis, development of parameters, evaluation of circuit potentials and applications.

### ELECT 202—ADVANCED SOLID-STATE DEVICES

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 201 and concurrent enrollment in ELECT 212. Continuation of analysis in using equivalent circuit concepts, various types of solid-state components, and introduction to analog integrated circuits.

### ELECT 203—SPECIAL CIRCUITS

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 202 and concurrent enrollment in ELECT 213. Solid-state devices/integrated circuits in industry; active filters, phase locked loops, SCRs, Triacs, and other power control semiconductors. Analysis of solid-state circuitry using equivalent circuits.

### ELECT 206—RADIO TELEPHONE GENERAL CLASS LICENSE

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 103. FCC license requirements and communication specialties as applied to the Radio Telephone General Class License. (Pass/No Credit)

### ELECT 211—SOLID-STATE LAB

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: Completion of first-year core program or equivalent. Evaluate with written assigned homework, classwork, and written examination.

### ELECT 212—ADVANCED SOLID-STATE CIRCUIT LAB

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: ELECT 201, 211. Development of and experimentation with transistor amplifiers and analog integrated circuits.

### ELECT 213—SPECIAL CIRCUITS LABORATORY

Cr: 3 Wkly hrs: 6 hours Lab

Prerequisite: Concurrent enrollment in ELECT 203. Laboratory practice in analysis and troubleshooting of active filters, phase locked loops, and solid-state power control circuits.

### ELECT 220—ISCET PREP COURSE

Cr: 1 Wkly hrs: 1 hour Lecture

Prerequisite: Permission of instructor. Review of basic electronics and preparation for the Associate Level Certified Electronic Technician Test. (International Society of Certified Electronics Technicians) (Pass/No Credit)

### ELECT 225—ADVANCED DIGITAL CIRCUITS

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ELECT 165 or equivalent. A continuation of basic digital circuits, with emphasis on counters, decoders, and registers. Course also includes an introduction to microprocessors.

**ELECT 226—ADVANCED MICROPROCESSORS****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: ELECT 225 or equivalent. Theory and application of interface systems used in the control of microprocessors.

**ELECT 227—MICROCOMPUTERS****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: ELECT 165, 225, or equivalent. Digital circuit types used in industry for machine control such as microprocessors and microcomputers.

**ELECT 235—ADVANCED DIGITAL CIRCUITS LABORATORY****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Concurrent enrollment in ELECT 225. Continuation of the basic digital circuits laboratory, with an emphasis on counters, decoders, registers, and an introduction to microcomputers.

**ELECT 236—ADVANCED MICROPROCESSOR LAB****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: ELECT 225 or equivalent, concurrent enrollment in ELECT 226. This class gives hands-on experience constructing, testing, and evaluating a microprocessor control project.

**ELECT 237—MICROCOMPUTER LABORATORY****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Concurrent enrollment in ELECT 227. Introduction to the use of machine/assembler language programming to control microprocessors for problem-solving or A/D and D/A interfacing.

**ELECT 250—SERVICING HOME ENTERTAINMENT PRODUCTS****Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: Must be taken with ELECT 260. Theory of operation of color televisions, CD's, DVD's and cassette players. Symptomatic trouble shooting and repair, alignment procedures, and repair.

**ELECT 260—SERVICING HOME ENTERTAINMENT PROD LAB****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Must be taken concurrently with ELECT 250. Laboratory practice in the servicing of home entertainment products, trouble-shooting techniques, and experimentation with various functions of different demodulator and amplifier circuits.

**ENGINEERING****ENGR 100—INTRODUCTION TO ENGINEERING****Cr: 1 Wkly hrs: 1 hour Lecture**

Introduction to fields and careers of engineering. How does one become an engineer? This is a required course for all engineering majors and should be taken early in the curriculum. (Pass/No Credit)

**ENGR 101—ENGINEERING DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Fundamental principles of the graphics of engineering, freehand sketching (orthographic and pictorial). Techniques of lettering and line work, use of instruments to create orthographic projection drawings of normal views and primary auxiliary projections, and an introduction to the theory of dimensioning.

**ENGR 102—ENGINEERING DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: ENGR 101 and TEC-D 200, or concurrent enrollment in TEC-D 200. Expansion of the principles and techniques used to make working engineering drawings. This includes coverage of standard dimensioning practices and conventions, section cuts and conventions, and isometric pictorial drawings.

**ENGR 103—DESCRIPTIVE GEOMETRY****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: ENGR 101, and TEC-D 200. Introduction to principles of descriptive geometry used to solve 3-dimensional problems graphically via successive auxiliary projections. Study of space relationships for points, lines, and planes that precede design. Also an introduction to development of surfaces and intersections.

**ENGR 111—ENGINEERING PROBLEMS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: PHYS 110 and MATH 120 with a grade of 2.0 or higher or co-enrollment in PHYS 110 and/or MATH 120 and permission of instructor. This course introduces students to engineering problem solving techniques. The emphasis is on the use of calculators and computers. The engineering design process is presented. (This course is offered Fall and Winter Quarters only.)

**ENGR 123—GRAPHICS FOR ENGINEERS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: MATH 119 with a grade of 2.0 or higher or co-enrollment in MATH 119 and permission of instructor. This course is designed to involve students in the use of graphical techniques and standard practices needed to record, communicate, and analyze engineering data. Students are introduced to the graphical elements used in the design process, from design sketches through working drawings and computer-aided drafting. (This course is offered Fall and Winter Quarters only.)

**ENGR 170—FUNDAMENTALS OF MATERIALS SCIENCE****Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: CHEM 140 with a grade of 2.0 or higher AND co-enrollment in ENGR 171. Elementary principles underlying the structure and properties of materials used in engineering practice. Relation of microstructure to physical properties. (This course is offered Spring Quarter only.)

**ENGR 171—MATERIALS SCIENCE LABORATORY****Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Co-enrollment in ENGR 170. Laboratory activities in materials testing. Experiments illustrate principles explored in ENGR 170 lecture course. (This course is offered Spring Quarter only.)

**ENGR 195—INDEPENDENT STUDY**

Can be offered as: ENGR 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ENGR 210—ENGINEERING MECHANICS—STATICS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: ENGR 111 and MATH 125 (with a grade of 2.0 or higher) or co-enrollment in MATH 125 with instructor permission. A study of the forces and loads acting on objects at rest using vector applications. (This course is offered Spring Quarter only.)

**ENGR 215—ELECTRICAL ENGINEERING FUNDAMENTALS****Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: MATH 126 and PHYS 255, both with 2.0 grade or higher AND co-enrollment in MATH 221. Introduction to electrical engineering. Basic circuit and systems concepts. Solution of first and second order linear differential equations associated with basic circuit forms. (This course is offered Spring Quarter only.)

**ENGR 220—MECHANICS OF MATERIALS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: ENGR 210 with a grade of 2.0 or higher. This course introduces the concepts of stress, deformation, and strain in solid materials. Basic relationships between loads on structural and machine elements such as rods, shafts, and beams, and the stresses, deflections, and load-carrying capacity of these elements under tension, compression, torsion, bending and shear forces are developed. (This course is offered Fall Quarter only.)

**ENGR 230—ENGINEERING MECHANICS—DYNAMICS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: ENGR 210 with a grade of 2.0 or higher and co-enrollment in MATH 221. Studies of motion using vector calculus, central force motion, Newtonian mechanics, energy, and impulse momentum methods. (This course is offered Spring Quarter only.)

**ENGR 260—INTRODUCTION TO THERMODYNAMICS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: MATH 126, PHYS 254, and CHEM 140, all with a grade of 2.0 or higher. Introduction to the basic principles of thermodynamics, from a predominately macroscopic point of view. Development of the basic laws of thermodynamics, together with their application to energy transformations and state change in engineering problems. (This course is offered Winter Quarter only.)

**ENGLISH****ENGL 091—BASIC WRITING DEVELOPMENT****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

This introductory course is designed for developmental students who need intensive individualized help.

**ENGL 093—INTERMEDIATE WRITING DEVELOPMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Completion of ENGL 091 with a grade of 2.0 or better, or appropriate ASSET score, or permission of instructor. An intermediate developmental course stressing grammar, punctuation, and academic English usage and the first principles of writing sentences and paragraphs. (Formerly ENGL 094)

**ENGL 093E—ENGLISH GRAMMAR FOR ESL****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: ASSET testing. ENGL 093E is the ESL alternative to ENGL 093. It prepares non-native students for language skill requirements of college study and professional life in the United States. Open only to non-native speakers of English. (Formerly ENGL 090E and 094E)

**ENGL 096—ESL WRITING SKILLS****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

This course aims to support ESL students with academic writing requirements. ESL students can co-enroll in this course when registering for any other writing-intensive course. An ESL student can enroll in this course repetitively.

**ENGL 099—WRITING IMPROVEMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Completion of ENGL 091 with a grade of 2.0 or better or appropriate placement score, or permission of instructor. This course reviews grammar and usage and emphasizes short essays and revision.

**ENGL 101—COMPOSITION****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Appropriate test score or successful completion of ENGL 099. A college-level introduction to effective written composition for academic, vocational, and occupational students, with emphasis on exposition.

**ENGL 102—COMPOSITION****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: ENGL 101. A continuation of ENGL 101 with emphasis on argumentation, research, and documentation.

**ENGL 104—TECHNICAL WRITING****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: ENGL 101 or equivalent. Problem-solving strategies for writing in the world of work: Letters, memos, reports, descriptions, instructions, proposals and research; oral presentation; graphics. Word processing skills recommended.

**ENGL 140—INTRODUCTION TO LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The basic principles of criticism and analysis of major literary forms.

**ENGL 141—THE SHORT STORY****Cr: 2 Wkly hrs: 2 hours Lecture**

H-The nature and development of short fiction.

**ENGL 143—POETRY****Cr: 2 Wkly hrs: 2 hours Lecture**

H-The nature and development of poetry, with an emphasis on understanding this literary form and its distinguishing features.

**ENGL 143B—POETRY TELECOURSE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The nature and development of poetry, with an emphasis on understanding this literary form and its distinguishing features. Includes exploration of passion, spirit, and brilliance of 13 of America's greatest poets. A telecourse.

**ENGL 144—DRAMA AS LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The study of dramatic writing as a literary form.

**ENGL 150—CONTEMPORARY LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of literature and its background, primarily since 1950. Emphasis on criticism of representative works.

**ENGL 195—INDEPENDENT STUDY**

Can be offered as: ENGL 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**ENGL 210—LITERATURE AND GEOGRAPHY****Cr: 10 Wkly hrs: 5 hours Lecture  
10 hours Lab**

H-This course investigates the cultural and physical geography of Wales, along with developments in Anglo-Welsh literature, in order to view the interrelationship between the cultural and the natural landscape and literary art. (Same as GEOG 210)

**ENGL 250—MAJOR AUTHORS AND WORKS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A study in-depth of one author or selected works by different authors. This course may be repeated for credit.

**ENGL 260—AMERICAN LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of the development of American literature from Colonial Times through the Civil War.

**ENGL 261—AMERICAN LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of the development of American literature from the post-Civil War period to the present.

**ENGL 263—ETHNIC LIT—WHITE ETHNIC AMERICAN****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of contributions of Jewish and first- and second-generation immigrant writers to American literature.

**ENGL 264—NATIVE AMERICAN LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of a wide spectrum of Native American verbal art, from traditional narratives and song to contemporary poetry, fiction, and film. Emphasis on cultural contexts and continuity.

**ENGL 265—ETHNIC LIT—AFRICAN AMERICAN****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of contributions to American literature by Black American writers.

**ENGL 267—ENGLISH LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of the development of English literature from its beginnings to 1789.

**ENGL 268—ENGLISH LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of English literature from 1789 to the present.

**ENGL 269—INTRODUCTION TO SHAKESPEARE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Studies in several major dramas and sonnets.

**ENGL 270—CREATIVE WRITING—NARRATION****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Development of biographical or autobiographical accounts. Students and instructor read and critique materials in a workshop setting.

**ENGL 271—CREATIVE WRITING—FAMILY HISTORY/BIOG****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Writing out episodes or complete works of family history or biography. Students and instructor read and critique materials in a workshop setting.

**ENGL 272—CREATIVE WRITING—POETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Writing poems, constructing ballads and other appropriate forms, including free form or spontaneous free form subject matter. Students and instructor read and critique materials in a workshop setting.

**ENGL 273—CREATIVE WRITING—DRAMA****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Invention and development of dramatic material: Dialogue, action, stage location, and music. Students and instructor read and critique materials in a workshop setting.

**ENGL 274—CREATIVE WRITING—SHORT STORY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The development of short fictional narratives. Students and instructor read and critique materials in a workshop setting.

**ENGL 275—CREATIVE WRITING—LONG NARRATIVE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The development of long fictional narratives. Students and instructor read and critique materials in a workshop setting.

**ENGL 276—CREATIVE WRITING—ADVANCED POETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: ENGL 272. This course is to further experience in writing poetry. Students and instructor read and critique materials in a workshop setting.

**ENGL 279—SHAKESPEARE'S PLAYS & ENGLISH HISTORY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-After reading historical sources about English history, students will enjoy the art of Shakespeare's History plays and investigate his creative interpretation of the historical process.

**ENGL 283—ASIAN LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Representative selections from modern Chinese and Japanese literature in translation. (Formerly ENGL 283A and 283B)

**ENGL 284—SURVEY OF WORLD LIT—20TH CENTURY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: As for other on-line courses, students must have access to certain hardware. This on-line course covers 20th Century literary selections from many countries. It also covers literary genre, critical methodologies, and research. (Same as HUMAN 284)

**ENGL 286—WOMEN AUTHORS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A study of the distinctive contributions of women to literature from the Eighteenth Century to the present.

## ESTHETICIAN

### ESTH 180—SKIN CARE

Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction on the structure of the face and neck and appropriate massage techniques.

### ESTH 181—FACIALS

Cr: 8 Wkly hrs: 4 hours Lecture  
8 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction in proper draping, cleansing the face, facial manipulation, skin diseases and disorders, machine and manual facials, skin conditions, and all safety and sanitation precautions.

### ESTH 182—TEMPORARY REMOVAL OF HAIR

Cr: 5 Wkly hrs: 1 hour Lecture  
8 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction on temporary removal of superfluous hair. Includes tweezing, waxing, tape; approved chemicals, lotions, and creams; and mechanical or electrical apparatus and appliances.

### ESTH 183—DISEASES AND DISORDERS OF THE SKIN

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction in identifying and distinguishing the various diseases and disorders of the skin.

### ESTH 184—MAKE-UP TECHNIQUES

Cr: 7 Wkly hrs: 4 hours Lecture  
6 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction in make-up application and skin and color analysis.

### ESTH 185—SAFETY AND SANITATION

Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

Prerequisite: Instructor approval. Hands-on experience and related classroom instruction on cleaning of the work station; proper storage and disposal of equipment; and the use of appropriate disinfectants, sanitation methods, and equipment.

### ESTH 186—FIRST AID

Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: Instructor approval. Learn the use of first aid as related to esthetics. Includes hands-on experience utilizing the proper first aid procedures.

## FAMILY SERVICE SPECIALTY

### FSS 101—INTRO TO FAMILY SUPPORT

Cr: 3 Wkly hrs: 3 hours Lecture

The course provides an overview of the family support movement, introduces principles and practices in family support and its potential for restructuring human services.

### FSS 103—FAMILY ABUSE AND NEGLECT

Cr: 2 Wkly hrs: 2 hours Lecture

The course focuses on research, theory, cause and effect of family violence, abuse and neglect, with special emphasis on prevention.

### FSS 105—DRUG AND ALCOHOL PREVENTION

Cr: 3 Wkly hrs: 3 hours Lecture

Students will acquire the skills and knowledge of substance abuse prevention theory and practice and become prevention practitioners in Washington State.

### FSS 140—FAMILIES WITH EXCEPTIONAL CHILDREN

Cr: 3 Wkly hrs: 3 hours Lecture

Support parents, teachers, and social workers in identifying children with disabilities or learning disorders and help them understand the collaborative role of the family in intervention. (Same as PARED 140)

### FSS 141—PREGNANCY AND EARLY INFANCY

Cr: 3 Wkly hrs: 3 hours Lecture

This course provides opportunity for pregnant women/new parents to learn about pre, post, and neonatal needs and how to care for mother and infant. Classes provide discussion on related issues. (Same as PARED 141)

### FSS 142—INFANT AND PARENT INTERACTION

Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: Child 6 months old or younger. Provides the parent with the opportunity to learn about child development and have a positive modeling environment. The course focuses on concerns, problems and developmental issues of infancy. The classes offer the parents the opportunity to interact with their child and have a parent educator available for instruction. (Same as PARED 142)

### FSS 211—HOME/SCHOOL/COMMUNITY RELATIONS

Cr: 3 Wkly hrs: 3 hours Lecture

The course introduces students to the transdisciplinary approach. Particular emphasis is placed on family dynamics and its effect on the educational experiences of the child.

### FSS 221—LEADERSHIP FOR 21ST CENTURY

Cr: 2 Wkly hrs: 2 hours Lecture

This course introduces basic leadership skills, allowing students to identify their own style to develop a personal leadership plan by observing effective community leaders.

### FSS 222—ART OF COLLABORATION

Cr: 2 Wkly hrs: 2 hours Lecture

The course focuses on the importance of developing a vision, building partnership, accountability and strategic planning to improve human service delivery.

### FSS 275—FAMILY SERVICES FIELD EXPERIENCE

Cr: 5 Wkly hrs: 10 hours Lab

Prerequisite: Completion of core requirements for Family Services Specialty Certificate Program; instructor permission required before enrolling. Field experience offers opportunities for students to demonstrate competency in work settings, i.e., schools and human service agencies.

## FIRE SERVICE—FIRE COMMAND ADMINISTRATION

### F-FC A 105—FIRE SERVICE HYDRAULICS

Cr: 3 Wkly hrs: 3 hours Lecture

A study of one branch of fluid mechanics dealing with the mechanical properties of water at rest and in motion, and the application of these properties to fire suppression operations and fire stream development. Includes municipal water supply systems and rural water supply operations.

### F-FC A 120—BASIC FIRE INVESTIGATION

Cr: 3 Wkly hrs: 3 hours Lecture

Prerequisite: Permission of fire service advisor. A basic study of fire scene investigation procedures and techniques used to determine the origin and cause of fire. Included are the reasons for accurately determining the origin and cause of fire, the systematic approach to fire scene examination, the chemistry of fire, determining the origin, major accidental and incendiary fire causes, scene sketching, scene photography, note taking, and Washington State Criminal Status. Other topics that will be covered are basic scene security, major fire scene control, report writing, interviewing, and courtroom demeanor for the firefighter and investigator.

### F-FC A 137—FIRE PROTECTION SYSTEMS

Cr: 3 Wkly hrs: 3 hours Lecture

A study of fire protection and detection systems with a focus on sprinkler systems. This course will cover basic system design, types of systems including wet, dry, deluge and pre-action, various sprinkler heads, systems parts including connections and valves, and system operation including water supply. Maintenance and inspection of sprinkler systems and fire department support will be discussed. Other topics include occupancies requiring non-water type systems, carbon dioxide systems, halogenated systems, dry/wet chemical systems, standpipe systems and the fire department's operation of standpipe systems. This course will also cover system location, basic system design, maintenance, and inspection. Comparisons will be made of foam and foam water systems including types, uses, and the various foams used. Attention is given to fire extinguishers focusing on basic types and distribution requirements, fire detection and alarm systems, alarm initiating devices, supervisory circuits, inspection, and testing of alarm systems using N.F.P.A. 13 and 13A.

### F-FC A 152—BUILDING CONSTRUCTION

Cr: 3 Wkly hrs: 3 hours Lecture

This course provides an overview of the engineering principles of building construction, characteristics of building classifications, fire and life safety devices and assemblies, fire loading, fire resistance, and flame spread ratings.

### F-FC A 155—FIRE SERVICE INSTRUCTOR I

Cr: 3 Wkly hrs: 3 hours Lecture

A basic study of elements that influence teaching and learning. Special attention is given to the Fire Service Training Instructor's relationship to student safety as well as the legal liabilities involved. Includes discussion of techniques for preparing and presenting effective lessons using the psychology of learning. Other topics include the wide variety of training aids available, copyright law and computers in Fire Service. The purposes and principles of testing and evaluation, types of tests, and test construction will also be examined.

### F-FC A 161—INCIDENT MANAGEMENT I

Cr: 3 Wkly hrs: 3 hours Lecture

A study of the Emergency Incident Management process as it applies to the fire service at the fire company level. Emphasis to include basic command structure and components, incident safety considerations, personnel accountability, and application of the management process to a variety of emergency situations.

**F-FC A 165—PRE-INCIDENT DISASTER PLANNING****Cr: 3 Wkly hrs: 3 hours Lecture**

This course is designated to prepare Fire Officers Level I and II to apply skills for emergency services delivery in accordance with NFPA 1021 Fire Officer Professional Qualifications. The fire officer will be able to implement disaster planning and management techniques for a variety of disasters, give fire officers the guidance to work with agencies not within the fire services, and understand how the disaster management plan works for the fire service. This course will also expand the subjects of pre-fire planning, disaster management plans, resource and information management, historical lessons, training and preparation, incident command structure, mass casualties and evacuation, aftermath/recovery, and case studies review and analysis.

**F-FC A 170—HAZARDOUS MATERIALS I****Cr: 4 Wkly hrs: 4 hours Lecture**

A course to establish a base whereby a person can identify the hazardous material, evaluate it from shipping papers, and know where assistance can be obtained.

**F-FC A 177—WILDLAND/URBAN INTERFACE****Cr: 3 Wkly hrs: 3 hours Lecture**

Given a wildland/urban interface fire incident, the student will: Size-up and evaluate the potential situation; order and deploy the necessary resources; and apply safe, effective strategy and tactics to minimize property damage.

**F-FC A 190—FIRE INSPECTION AND CODES****Cr: 4 Wkly hrs: 4 hours Lecture**

A study of the Uniform Fire Code as it applies to fire prevention inspections at the fire company level. Includes the fire codes' relationship to the Uniform Building Code and other recognized standards.

**F-FC A 203—FIRE DEPARTMENT CUSTOMER SERVICE****Cr: 2 Wkly hrs: 2 hours Lecture**

Course content is based on the need to improve effective fire department customer service.

**F-FC A 231—FIRE SERVICE LEADERSHIP****Cr: 4 Wkly hrs: 4 hours Lecture**

Roles and responsibilities of shift commanders and staff officers. Topics include: Goals-setting, delegating, counseling, coaching, problem-solving, decision-making, communications, and labor relations.

**F-FC A 232—FIRE SERVICE MANAGEMENT****Cr: 4 Wkly hrs: 4 hours Lecture**

Management theory and practice in relation to roles and responsibilities of shift commanders and staff officers. Topics include evolution of management, decision-making, planning, organizing, leading, and controlling.

**F-FC A 233—FIRE SERVICE ADMINISTRATION****Cr: 4 Wkly hrs: 4 hours Lecture**

Concepts, examples, and practice of political and legal issues; hiring practices, forms of local government and revenue sources; intergovernmental relations; information management; planning; and budgeting.

**F-FC A 260—FIRE TACTICS II/MULTIPLE COMPANY OPS****Cr: 3 Wkly hrs: 3 hours Lecture**

The course will teach planning, implementing and evaluating of basic and advanced fire tactics at the command officer level.

**F-FC A 261—INCIDENT MANAGEMENT II****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: F-FC A 161 or see fire service advisor. A study of the emergency incident management process as it applies to the emergency response services at the disaster management level. Emphasis to include: Advanced command structure and components, pre-incident planning, and application of the management process to a variety of large-scale emergency situations.

**F-FC A 270—HAZARDOUS MATERIALS II****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: F-FC A 170. The course content is intended to provide the student with the knowledge, skill, and abilities to meet the goals identified in the requirements for Haz Mat II. The course will also cover the goals identified in NFPA Standard for Fire Officers that deal with Haz Mat Incident tactics.

**F-FC A 280—LAW FOR EMERGENCY SERVICES****Cr: 3 Wkly hrs: 3 hours Lecture**

Presents firefighters and emergency medical technicians legal responsibilities in driving, inspecting, emergency operations, communications, fire prevention, ambulance services and areas of other activities. Covers employee and member's rights, duties, liabilities, and participation in the preparation for presentation in a court.

**FIRE SERVICE—FIRE SCIENCE****F-FS 100—INTRO TO FIRE DEPARTMENT ORGANIZATION****Cr: 1 Wkly hrs: 1 hour Lecture**

An introduction to the mission, standards in fire department organization. Content addresses firefighter's role and responsibilities related to a fire department.

**F-FS 110—FIRE DEPARTMENT PUMPERS****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: Fire Department sponsorship. This course introduces basic fire department pumper operations. Course content will address the introduction of hydraulics, basic pump theory, components, systems and basic pump operating skills.

**F-FS 111—FUNDAMENTALS OF FIRE FIGHTING****Cr: 7 Wkly hrs: 3 hours Lecture  
8 hours Lab**

Prerequisite: Fire department sponsorship, F-FS 100 and permission of program advisor. This course is an introduction to fundamental skills of structural fire fighting. Course content is based on the Washington State Firefighter 1, Module I. This course is given through the Kitsap County Volunteer Recruit Academy.

**F-FS 112—FUNDAMENTALS OF EMERGENCY MEDICINE****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Fire Department sponsorship. Course content is based on satisfying the minimum medical training requirements established for firefighters who provide emergency medical care to the sick and injured.

**F-FS 113—INTERMED FIRE FIGHTING FUNDAMENTALS****Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab**

Prerequisite: Fire Department sponsorship and F-FS 111. This course expands basic firefighting skills to an intermediate level. Course content is based on the Washington State Firefighter 1, Module 2 Performance Standards.

**F-FS 115—ADVANCED FIRE FIGHTING FUNDAMENTALS****Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab**

Prerequisite: Fire Department sponsorship and F-FS 113. This course expands intermediate firefighting skills to an advanced level. Course content is based on the Washington State Firefighter 1, Module 3 and Firefighter II Performance Standards.

**F-FS 119—LIVE FIRE—FLAMMABLE LIQUIDS/LPG****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Fire Department sponsorship and F-FS 115. Training covers all techniques and methods currently used in combating flammable liquids and LPG fires. This course will give a firefighter required skills needed for advancement.

**F-FS 160—FIRE GROUND TACTICS****Cr: 3 Wkly hrs: 3 hours Lecture**

The basic principles of fire ground management. Content includes the principles of size-up, risk/benefit management, fire spread, fire flow, fire attack, resource management, and much more.

**F-FS 200—EMERGENCY MEDICAL TECHNICIAN****Cr: 6 Wkly hrs: 4 hours Lecture  
6 hours Clinic**

Prerequisite: F-FS 112 or equivalent and permission of Fire Service Programs Advisor. Training covers all emergency medical techniques currently considered to be within the responsibilities of the basic EMT providing emergency care with an ambulance service.

**FOOD SERVICE****FDSRV 101—DINING ROOM SERVICE I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor signature. Introduction to dining room service, table setups, food identification, customer relations, industry history, inter-relationships, and safe food handling.

**FDSRV 102—DINING ROOM SERVICE II****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor signature. Expanded introduction to dining room service. Explore safe food handling. Learn proper sanitation techniques, cleaning, and chemical usage.

**FDSRV 103—FOOD PREPARATION AND SERVICE I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor signature. An introduction to commercial cooking with emphasis on basic techniques and sanitation.

**FDSRV 104—FOOD PREPARATION AND SERVICE II****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor signature. Working and equipment uses in the commercial kitchen.

**FDSRV 105—FOOD PREPARATION AND SERVICE III****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor signature. Spice and herb identification and usage; use of specialized tools.

**FDSRV 106—FOOD PREPARATION AND SERVICE IV**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. The preparation of varied entrees and side dishes for the restaurant business.

**FDSRV 111—BASICS OF BAKING**

Cr: 1 Wkly hrs: 1 hour Lecture

A course for students or professionals wishing to improve their baking skills—a combination of lecture, demonstration, and hands-on preparation.

**FDSRV 122—DINING ROOM SERVICE III**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Service for fine dining, tableside food preparation, how to calculate food costs, and how to identify hospitality organizations. An introduction to nutrition.

**FDSRV 123—DINING ROOM SERVICE IV**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Students examine career paths, develop menus and pricing strategies, evaluate nutrition implications in new developments, and identify safety issues.

**FDSRV 124—FOOD PREPARATION AND SERVICE V**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Creation of a complete menu from breakfast through dinner items.

**FDSRV 125—FOOD PREPARATION AND SERVICE VI**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Menu building from concept to finished product.

**FDSRV 126—COOKING FOR FINE DINING I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Cooking for fine dining: A la carte, sauté, broil, and preparations to order.

**FDSRV 127—COOKING FOR FINE DINING II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Creative menus; buffets and specialty dishes for fine dining; and determining entree costs.

**FDSRV 132—DINING ROOM SUPERVISION I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Supervision in dining room and banquet service; menu planning and layout; special event planning; and staff supervision.

**FDSRV 133—DINING ROOM SUPERVISION II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Financial statements; suggestive selling; interviewing and training staff; and menu structure.

**FDSRV 134—ADVANCED PANTRY/GARDE MANGER I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. The making of cold salads, platters, and cold meat items.

**FDSRV 135—ADVANCED PANTRY/GARDE MANGER II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Pate's and gelatins, buffet pieces, and vegetable carving.

**FDSRV 136—RESTAURANT BAKING I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Basic baking for restaurants: Breads, rolls, cakes, and various desserts.

**FDSRV 137—RESTAURANT BAKING II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Advanced baking: Creamed and iced desserts; pastry and decoration; and chocolate work.

**FDSRV 147—DINING ROOM MANAGEMENT I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Learn management of the formal dining room with responsibility for all food functions, liquor laws, and supervisory responsibilities.

**FDSRV 148—DINING ROOM MANAGEMENT II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Menu development, bar operation theory, and etiquette in fine dining.

**FDSRV 149—KITCHEN MANAGEMENT I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Basic kitchen management and the role of the Sous Chef.

**FDSRV 150—KITCHEN MANAGEMENT II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Menu planning, ordering, supervision, and production.

**FDSRV 151—INTRO TO RESTAURANT MANAGEMENT I**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Effective communication and leadership styles; interviewing skills; employee training; scheduling; employee evaluations; and one-minute management.

**FDSRV 152—INTRO TO RESTAURANT MANAGEMENT II**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: Instructor signature. Job descriptions and employee retention and motivation techniques. One-minute management revisited.

**FDSRV 160—US NAVY GENERAL MESS OPERATIONS**

Cr: 8 Wkly hrs: 8 hours Lecture

Prerequisite: Instructor signature. Phase I of this course provides Mess Management Specialists with advanced technical knowledge to supervise a watch section, to practice and maintain high standards of personal hygiene and sanitation, to properly utilize the Armed Forces Recipe services to convert recipes and produce food products in accordance with Nutritional Standards within acceptable cost limit, to properly maintain/utilize the Food Preparation Worksheet, and artistic concepts of a menu. Phase II of this course provides advanced technical skills to practice and maintain high quality foods preparation; to properly use the Armed Forces Recipe Services to care for and safely operate galley and bakeshop cooking equipment; and to bake and decorate cakes. (Formerly FDSRV 100)

**FDSRV 161—US NAVY PRIVATE MESS OPERATIONS**

Cr: 8 Wkly hrs: 8 hours Lecture

Prerequisite: Instructor signature. Phase I provides Mess Management Specialists with advanced technical knowledge to supervise a private watch section and Phase II provides advanced technical skills to practice and maintain high quality food preparation.

**FDSRV 170—GOURMET COOKING**

Cr: 1 Wkly hrs: 1 hour Lecture

Cooking techniques for the novice and experienced cook; versatility and improvisation in food preparation; and low fat, low cost alternatives.

**FDSRV 195—INDEPENDENT STUDY**

Can be offered as: FDSRV 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**FDSRV 199—PRACTICUM**

Can be offered as: FDSRV 199/299.

Cr: 1-5 Wkly hrs: 10 hours Lab

A practical application in the working world of the basic theories studied in the above program or discipline.

**FOREIGN LANGUAGES—  
AMERICAN SIGN LANGUAGE****FLASL 145—AMERICAN SIGN LANGUAGE I**

Cr: 5 Wkly hrs: 5 hours Lecture

H-An introductory course focusing on expressive and receptive signing in the context of everyday situations. In addition to basic vocabulary and grammar, the culture and history of the deaf and culturally appropriate behaviors are introduced. (Same as SPCH 145)

**FLASL 146—AMERICAN SIGN LANGUAGE II**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Prerequisite: Completion of FLASL 145 with a grade of 2.0 or better or permission of instructor. Continued study of ASL focused on expanding vocabulary and grammar to intermediate level with an emphasis on expressive and receptive skills. Further discussion of the deaf culture is also included. (Same as SPCH 146)

**FLASL 147—AMERICAN SIGN LANGUAGE III****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: Completion of FLASL 146 with a grade of 2.0 or better or permission of instructor. Continued study of ASL focused on expanding vocabulary and grammar with an emphasis on expressive and receptive skills. Further discussion of deaf culture. (Same as SPCH 147)

**FLASL 148—AMERICAN SIGN LANGUAGE IV****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: Completion of FLASL 147/SPCH 147 with a grade of 2.0 or better or permission of instructor. The focus of this course is to develop ASL fluency with the emphasis on expressive skills. The course includes intensive vocabulary building, ASL idioms, slang and grammar. (Same as SPCH 148)

**FLASL 195—INDEPENDENT STUDY**

Can be offered as: FLASL 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**FOREIGN LANGUAGES—  
FRENCH****FLFRN 101—ELEMENTARY FRENCH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Deals with principles of pronunciation and with elementary vocabulary and grammar structures for immediate basic communication. Explores geographical and cultural aspects of French-speaking countries.

**FLFRN 102—ELEMENTARY FRENCH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLFRN 101 or equivalent. Deals with practical vocabulary and broader grammar patterns for communication in a daily, urban context. Explores geographical and cultural aspects of French-speaking countries.

**FLFRN 103—ELEMENTARY FRENCH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLFRN 102 or equivalent. Deals with upper basic vocabulary and grammar structures for conversational purposes and level. Explores linguistic, geographical, and cultural aspects, and differences of the French-speaking countries and peoples.

**FLFRN 195—INDEPENDENT STUDY**

Can be offered as: FLFRN 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**FOREIGN LANGUAGES—  
GERMAN****FLGRM 101—ELEMENTARY GERMAN****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Course builds confidence in basic skills of oral and written communication and investigates German culture and its relationship to the language. Materials reflecting contemporary German life are used.

**FLGRM 102—ELEMENTARY GERMAN****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLGRM 101. Course builds confidence in basic skills of oral and written communication and investigates German culture and its relationship to the language. Materials reflecting contemporary German life are used.

**FLGRM 103—ELEMENTARY GERMAN****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLGRM 102. Course builds confidence in basic skills of oral and written communication and investigates German culture and its relationship to the language. Materials reflecting contemporary German life are used.

**FLGRM 195—INDEPENDENT STUDY**

Can be offered as: FLGRM 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**FOREIGN LANGUAGES—  
JAPANESE****FLJPN 101—JAPANESE I****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Essentials of good listening and speaking of Japanese and writing and reading of phonic script, "katakana".

**FLJPN 102—JAPANESE II****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLJPN 101. Essentials of good listening and speaking of Japanese and writing and reading of "hiragana".

**FLJPN 103—JAPANESE III****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLJPN 101, 102. Essentials of good listening and speaking of Japanese at an advanced level, reading and writing of "katakana" and "hiragana", and an introduction to "kanji", Chinese characters.

**FOREIGN LANGUAGES—  
SPANISH****FLSPN 101—ELEMENTARY SPANISH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Deals with principles of pronunciation, and with elementary vocabulary and grammar structures for immediate basic communication. Explores geographical and cultural aspects of Spanish-speaking countries.

**FLSPN 102—ELEMENTARY SPANISH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLSPN 101 or equivalent. Deals with practical vocabulary and broader grammar patterns for communication in a daily, urban context. Explores geographical and cultural aspects of Spanish speaking countries.

**FLSPN 103—ELEMENTARY SPANISH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: FLSPN 102 or equivalent. Deals with upper basic vocabulary and grammar structures for conversational purposes and level. Explores linguistic, geographical, and cultural aspects and differences of the Spanish-speaking countries and peoples.

**FLSPN 195—INDEPENDENT STUDY**

Can be offered as: FLSPN 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**GENERAL STUDIES****GEN-S 100—STRATEGIES FOR ACADEMIC SUCCESS****Cr: 2 Wkly hrs: 2 hours Lecture**

This course is designed for first year and returning students to enhance academic success and retention in college.

**GEN-S 101—ORIENTATION TO COLLEGE****Cr: 1 Wkly hrs: 1 hour Lecture**

This course is designed for entering students to develop an understanding of the role of the student, identify campus resources available to students, identify learning options in order to develop an academic plan.

**GEN-S 110—RESEARCH IN THE INFORMATION AGE****Cr: 2 Wkly hrs: 2 hours Lecture**

This course is an introduction to academic research skills and is designed for students from all programs. Emphasis on proficiency at using various electronic databases, including those available on the library's information networks, the online catalog and the World Wide Web as well as other standard research tools and retrieval techniques. The principles and skills learned can be applied throughout college, as well as for life-long learning.

**GEOGRAPHY****GEOG 101—INTRODUCTION TO GEOGRAPHY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: ENGL 099 and MATH 094 must be passed with a 2.0 or better. Survey of Geography including cartography, resource use, world population, agriculture, and urban patterns. Special emphasis is placed on the impact of humans on the global environment.

**GEOG 110—INTRODUCTION TO PHYSICAL GEOGRAPHY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. The study of the causes of spatial variations of, interrelationships between, and human effects on climate, vegetation, soils and landforms. (Same as PH-SC 110)

**GEOG 111—PHYSICAL GEOGRAPHY I—CLIMATE/VEGETA****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET score. Part one of Intro to Physical Geography. The Earth's atmosphere, hydrosphere and biosphere will be explored with special attention given to relevant environmental problems faced by the world. (Same as PH-SC 111)

**GEOG 112—PHYSICAL GEOGRAPHY II—LAND AND SEA****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET score. Intro to the lithosphere. Study of Earth's landforms, soils, and processes that create them. Topics include glacial activity, river systems, coastal dynamics and topographic map interpretation. (Same as PH-SC 112)

**GEOG 120—GEOGRAPHY OF THE PACIFIC NORTHWEST****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. A lecture/field course introducing the physical, economic and cultural geography of the Pacific Northwest. This is one of three courses in a modified, coordinated studies program.

**GEOG 135—GEOGRAPHIC FIELD STUDIES****Cr: 1-5 Wkly hrs: 10 hours Lab**

Can be offered as: GEOG 135/135A/135B/135C/135D/135E/135F/135G.

SS-Prerequisite: One quarter of Geology or Biology or permission of instructor. A field course where students will examine physical, cultural, and other geographic aspects of a particular location and evaluate its relevance to the broader regional and global context. (Pass/No Credit)

**GEOG 195—INDEPENDENT STUDY**

Can be offered as: GEOG 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**GEOG 207—INTRODUCTION TO ECONOMIC GEOGRAPHY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. Economic geography is concerned with the distribution of economic activity, the use of the world's resources, and the spatial organization and expansion of the world economy. (Same as BS-EC 207)

**GEOG 210—LITERATURE AND GEOGRAPHY****Cr: 10 Wkly hrs: 5 hours Lecture  
10 hours Lab**

SS-This course investigates the cultural and physical geography of Wales, along with developments in Anglo-Welsh literature, in order to view the interrelationship between the cultural and the natural landscape and literary art. (Same as ENGL 210)

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**GEOLOGY****GEOLOG 100—EARTH SYSTEMS SCIENCE**

Can be offered as: GEOLOG 100 and 100L or GEOLOG 100 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: ENGL 099 and MATH 099. This course introduces students to the physical evidence, scientific principles, and methods of analysis necessary to understand how earth systems interact to generate and sustain the physical environment in which we live.

**GEOLOG 100L—LAB-EARTH SYSTEMS SCIENCE****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See GEOLOG 100.

**GEOLOG 101—PHYSICAL GEOLOGY**

Can be offered as: GEOLOG 101 and 101L or GEOLOG 101 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: MATH 094. An introduction to earth's materials, processes, and landscapes and how they were formed; labs parallel lecture content. Optional field trips.

**GEOLOG 101L—LAB-PHYSICAL GEOLOGY****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See GEOLOG 101.

**GEOLOG 102—ENVIRONMENTAL GEOLOGY**

Can be offered as: GEOLOG 102 and 102L or GEOLOG 102 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Geologic resources and processes important to human welfare: Volcanoes, earthquakes, slope stability, rivers and flood management, groundwater, soils, minerals, and energy resources.

**GEOLOG 102L—LAB-ENVIRONMENTAL GEOLOGY****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See GEOLOG 102.

**GEOLOG 103—HISTORY OF THE EARTH**

Can be offered as: GEOLOG 103 and 103L or GEOLOG 103 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: MATH 094. Origin and evolution of the Earth and its life forms. Emphasis on the geologic events which have changed the pattern of the continents and ocean basins, created mountain ranges, altered climates, and influenced life history through 4.5 billion years of geologic time. Optional field trips.

**GEOLOG 103L—LAB-HISTORY OF THE EARTH****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See GEOLOG 103.

**GEOLOG 105—GEOLOGIC HAZARDS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-This course allows students to recognize geologic hazards and understand the processes involved. Current and historic examples will be used and emphasis will be placed on risk probability and recurrence.

**GEOLOG 106—GLACIERS AND THE ICE AGE****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Glaciers and Ice Age: Origins, history and effects, impact on the Earth environment with emphasis on North America and the Pacific Northwest. Field trips.

**GEOLOG 108—GEOLOGY OF THE PACIFIC NORTHWEST**

Can be offered as: GEOLOG 108 and 108L or GEOLOG 108 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: GEOLOG 101 or 102. Understanding the geologic origins of the rocks and landscapes in Washington and neighboring parts of the Pacific Northwest. Optional field trips.

**GEOLOG 108A—GEOLOGY OF THE PACIFIC NORTHWEST****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

NS-Prerequisite: GEOLOG 101, or 102, or 103 or instructor approval. An introduction to the rocks, landforms, and geologic processes in Washington State and neighboring parts of the Pacific Northwest. One to three day field trips required.

**GEOLOG 108L—LAB-GEOLOGY OF THE PACIFIC NORTHWEST****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See GEOLOG 108.

**GEOLOG 110—INTRODUCTION TO VOLCANOES****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-The course focuses on volcanoes and volcanic processes. Topics include the relationship of plate tectonics to volcanism, volcanic hazards, and volcanic risk-assessment and mitigation. (Pass/No Credit)

**GEOLOG 135—FIELD STUDIES IN GEOLOGY**

Can be offered as: GEOLOG 135/135A/135B/135C/135D/135E/135F/135G.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

NS-Prerequisite: One quarter of GEOLOG 101, 102, or 103, or permission of instructor. Students observe regional geology and landforms, collect samples, measure and interpret geological structures, and examine the significance of their observations. Course may be repeated for credit. (Pass/No Credit)

**GEOLOG 195—INDEPENDENT STUDY**

Can be offered as: GEOLOG 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

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**HEALTH OCCUPATIONS****H-OCC 100—NURSING ASSISTANT****Cr: 8 Wkly hrs: 3 hours Lecture  
10 hours Lab**

Prerequisite: High School Diploma or GED, age 18, CASSAS test, CPR/foreign body airway obstruction. This course will prepare students for employment as Nursing Assistant Certified (NAC). The student must complete the course with a minimum grade point of 75%.

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**HISTORY****HIST 101—WESTERN CIVILIZATION TO 1300 AD****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Introductory course in the development of Western Civilization from its earliest beginnings to 1300 AD. Examines the major political, economic, religious, and social trends.

**HIST 102—WESTERN CIVILIZATION—1300 TO 1815****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Introductory course in the development of Western Civilization from 1300 to 1815 AD, analyzing the major political, religious, economic, and social trends of this era.

**HIST 103—WESTERN CIVILIZATION—1815 TO PRESENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Introductory course in the development of Western Civilization from 1815, analyzing the major political, religious, economic, and social trends of this era.

**HIST 104—THE UNITED STATES TO 1865****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Survey of the political, social, economic, and intellectual forces involved in the foundation and development of the United States from pre-Colombian America through the Civil War.

**HIST 105—THE UNITED STATES SINCE 1865****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-The political, social, economic, and intellectual forces involved in the development of the United States from the Reconstruction Period to the present.

**HIST 125—HISTORY/BLACK AMERICA 1820—PRESENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Course traces the origins of Black America from slavery through the forces that shaped the Civil Rights Movement in order to promote a deeper understanding of what has been called "The Black Experience".

**HIST 150—WAR****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-A comprehensive description of war from the social sciences and humanities: Historical, political, economic, psycho-social aspects and topics from philosophy, literature, and film are used. (Same as HUMAN 150/POL-S 150)

**HIST 195—INDEPENDENT STUDY**

Can be offered as: HIST 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**HIST 209—WESTWARD MOVEMENT IN AMERICAN HISTORY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-The Colonial Period to 1900, with consideration of the effect of the frontier on history, both as myth and reality. The Turner Thesis will be studied, and the impact of expansion on Native Americans.

**HIST 215—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Interdisciplinary survey of American cultural development from the Colonial Period through the Civil War, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HUMAN 215)

**HIST 216—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Interdisciplinary survey of American cultural development from the end of the Civil War through the 1920's, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HUMAN 216)

**HIST 217—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Interdisciplinary survey of American cultural development from the 1930's through the 1980's, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HUMAN 217)

**HIST 230—FILMS IN AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-The history and culture of America as seen in 20th Century American film. (Same as HUMAN 230)

**HIST 240—U.S. WOMEN'S HISTORY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Explores the social, political and economic roles of women, pre-contact to the present. Comparative approach illustrates the variety of experiences among women of diverse races, social and economic classes, and ethnic groups.

**HIST 250—THE PACIFIC NW AND WASHINGTON STATE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-The Pacific Northwest, from earliest times to the present, with emphasis upon political, economic, social, and cultural developments.

**HIST 252—THE CONSTITUTION/A DELICATE BALANCE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Course treats current constitutional issues including national security, freedom of the press, affirmative action, foreign policy, rights of the unborn and terminally ill, insanity defense, and illegal aliens. (Same as POL-S 252)

**HIST 253—WORLD WAR I IN HISTORY AND LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-An interdisciplinary study of World War I, including an historical view of the causes, nature, and outcome of the war, and a literary/cultural view of the impact of "The Great War". (Same as HUMAN 253)

**HIST 255—HISTORY OF WORLD WAR II—EUROPE****Cr: 3 Wkly hrs: 3 hours Lecture**

SS-A survey of the history of World War II covering the political and economic backgrounds leading to the war, through the war crimes trials that ended it.

**HIST 256—HISTORY OF WORLD WAR II—THE PACIFIC****Cr: 3 Wkly hrs: 3 hours Lecture**

SS-A survey of the history of World War II in the Pacific covering the political and economic backgrounds leading to the war, through the dropping of the atomic bombs that ended it.

**HIST 260—RUSSIAN HISTORY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Development of Russian history from its foundations to the modern Soviet State. Historical motivation for domination of millions of people. Cultural legacy to Western historical development.

**HUMANITIES****HUMAN 150—WAR****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A comprehensive description of war from the social sciences and humanities: Historical, political, economic, psycho-social aspects and topics from philosophy, literature, and film are used. (Same as HIST 150/POL-S 150)

**HUMAN 175—POLITICS AND LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An examination of the central issues and concepts of politics through the perspective provided by great literature. Included will be the questions of authority, responsibility, freedom, and power. (Same as POL-S 175)

**HUMAN 195—INDEPENDENT STUDY**

Can be offered as: HUMAN 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**HUMAN 201—INTRODUCTION TO THE ART OF FILM****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of the elements of motion picture art to increase understanding and enhance the ability of viewers to "read" films critically. This is a writing course.

**HUMAN 202—LITERATURE AND FILM****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of literary and film techniques and a comparison of verbal and visual languages.

**HUMAN 203—INTRODUCTION TO WESTERN RELIGIONS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Introduction to the study of religions, emphasizing the western religious traditions, including Judaism, Christianity and Islam.

**HUMAN 204—INTRODUCTION TO EASTERN RELIGIONS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A study of the major religions of Asia, emphasizing India, China, and Japan.

**HUMAN 206—HISTORY OF AMERICAN MUSICALS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An historical survey of musical theatre in America with an emphasis upon the analysis of specific works as both performative art and cultural artifact. (Formerly HUMAN 260) (Same as VTA 206)

**HUMAN 215—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Interdisciplinary survey of American cultural development from the Colonial Period through the Civil War, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HIST 215)

**HUMAN 216—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Interdisciplinary survey of American cultural development from the end of the Civil War through the 1920's, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HIST 216)

**HUMAN 217—HISTORY OF AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Interdisciplinary survey of American cultural development from the 1930's through the 1980's, analyzing the impact of ideas and experience on the arts, peoples, and institutions of the culture. (Same as HIST 217)

**HUMAN 220—WOMEN IN AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A survey of the role and status of American women from Colonial Times to the present, with emphasis on the arts. (Same as SOCIO 220)

**HUMAN 230—FILMS IN AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The history and culture of America as seen in 20th Century American film. (Same as HIST 230)

**HUMAN 250—MAJOR FILM DIRECTORS AND WORKS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-A study in-depth of one film director's style, or selected major works by different directors. This is a writing course.

**HUMAN 253—WORLD WAR I IN HISTORY AND LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An interdisciplinary study of World War I, including an historical view of the causes, nature, and outcome of the war, and a literary/cultural view of the impact of "The Great War". (Same as HIST 253)

**HUMAN 257—ROCK'N ROLL—MUSIC AND IDEAS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-This course provides a historical overview of the Rock'N Roll culture in the post-war world (1945-1985), with an emphasis on critical appraisal of the lyrics of Rock'N Roll music.

**HUMAN 284—SURVEY OF WORLD LIT—20TH CENTURY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: As for other on-line courses, students must have access to certain hardware. This on-line course covers 20th Century literary selections from many countries. It also covers literary genre, critical methodologies, and research. (Same as ENGL 284)

**HUMAN 290—MASS MEDIA IN AMERICAN SOCIETY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Explores the principles of mass communications and its interrelationships in our culture, paying particular attention to media's role in our rapidly evolving technological world. (Same as JOURN 290)

**INTEGRATED MULTIMEDIA****IMM 101—INTRODUCTION TO INTEGRATED MULTIMEDIA****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

Students explore computer software and platforms while also learning the skills and possibilities of communication offered with the use of multimedia; a tool that can be used by everyone. (Same as ART 112)

**IMM 102—PROCESS OF INTEGRATED MULTIMEDIA****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

Using computers and current software used in business, students will plan and execute multimedia projects utilizing a process common to all fields of study. (Formerly ART 212)

**IMM 120—BEGINNING PHOTOSHOP****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

Students learn the various aspects of Photoshop, an Image Manipulation software tool for creative and technical use.

**IMM 130—BEGINNING FLASH****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

Students learn the various foundation aspects of Flash, a powerful animation tool for the Web software, for creative and technical use.

**IMM 195—INDEPENDENT STUDY**

Can be offered as: IMM 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**IMM 220—INTERMEDIATE PHOTOSHOP****Cr: 5 Wkly hrs: 4 hours Lecture  
2 hours Lab**

Students learn the intermediate aspects of Photoshop, an image manipulation software tool for creative and technical use.

**JOURNALISM****JOURN 100—REPORTING AND NEWS WRITING****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

H-Prerequisite: ENGL 101 eligibility. Introductory course in interview techniques, summary and special leads, inverted pyramid and feature stories, media law and ethics. Students will submit work to The Olympian for publication consideration.

**JOURN 101—COLLEGE NEWSPAPER WRITING & REPORTING**

Can be offered as: JOURN 101/102/103 and 201/202/203.

**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

H-Prerequisite: JOURN 100. Practical application in advanced reporting and writing for The Olympian, the student newspaper, including news and feature writing.

**JOURN 105—PHOTOJOURNALISM****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

H-Course provides photographers with hands-on experience in photojournalism, including the technical aspects of camera operation and darkroom procedures; news, feature, sports, and illustrative photography; ethics and legal issues.

**JOURN 106—PAGEMAKER FOR THE STUDENT NEWSPAPER****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

H-Prerequisite: Additional hours required; scheduled on an arranged basis. Students will learn the principles of tabloid newspaper design and will apply them using PageMaker on Macintosh computers. Assignments will include designing pages for The Olympian.

**JOURN 109—ADVERTISING****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

H-Course will introduce students to the principles of advertising, theories of consumer behavior and audience analysis. Students will become proficient in communicating to a target audience and working collaboratively.

**JOURN 110—COLLEGE NEWSPAPER DESIGN AND EDITING**

Can be offered as: JOURN 110/120/130 and 210/220/230.

**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

H-Prerequisite: ENGL 101 eligibility and permission of instructor. Hands-on course for students who want to help publish a college newspaper that is professional in its appearance, readability, accuracy, fairness, and objectivity.

**JOURN 195—INDEPENDENT STUDY**

Can be offered as: JOURN 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**JOURN 290—MASS MEDIA IN AMERICAN SOCIETY****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Explores the principles of mass communications and its interrelationships in our culture, paying particular attention to media's role in our rapidly evolving technological world. (Same as HUMAN 290)

**MANICURIST****MANI 130—MANICURING****Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab**

Prerequisite: Instructor approval. The study of cleaning, shaping, and polishing nails and the treatment of cuticles. Includes hands-on experience in those skills.

**MANI 131—PEDICURING****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Learn about proper cleaning, shaping, and polishing of the nails of the feet. Includes hands-on experience in the cleaning, shaping, and polishing of the nails and proper manipulations of the foot.

**MANI 132—DISEASES AND DISORDERS****Cr: 8 Wkly hrs: 5 hours Lecture  
6 hours Lab**

Prerequisite: Instructor approval. The study of the diseases and disorders of the nails, hands, and feet. Includes hands-on experience in distinguishing the different diseases and disorders.

**MANI 133—SAFETY AND SANITATION****Cr: 4 Wkly hrs: 1 hour Lecture  
6 hours Lab**

Prerequisite: Instructor approval. The study of safety and sanitation requirements. Includes hands-on experience in cleaning work stations, proper storage, and disposal of equipment; use of proper disinfectants; and sanitation methods for equipment.

**MANI 134—FIRST AID****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Study the use of first aid related to the manicurist profession.

**MANI 135—ARTIFICIAL NAILS I****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Learn about applying, finishing, and removing artificial nails. Includes hands-on experience in properly preparing nails and applying, finishing, and removing artificial nails. Focus is on build-on sculpture and extensions.

**MANI 136—ARTIFICIAL NAILS II****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

Prerequisite: Instructor approval. Learn about applying, finishing, and removing artificial nails. Includes hands-on experience in properly preparing nails and applying, finishing, and removing artificial nails. Focus is on application of tips with overlays.

**MATHEMATICS****MATH 090—COLLEGE ARITHMETIC****Cr: 5 Wkly hrs: 5 hours Lecture**

College Arithmetic includes operations using fractions. Decimals and signed numbers; ratio and proportion; percent; geometry; measurement; and charts and tables.

**MATH 090W—COLLEGE ARITHMETIC****Cr: 5 Wkly hrs: 5 hours Lecture**

College Arithmetic includes operations using fractions, decimals and signed numbers; ratio and proportion; percent; geometry; measurement; and charts and tables.

**MATH 094—ELEMENTARY ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score. First quarter of the sequence of Elementary Algebra, Intermediate Algebra, and College Algebra. Basic algebraic concepts, first degree equations, polynomials, whole number and rational exponents, roots and radicals, word problems.

**MATH 094A—ELEMENTARY ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score. Basic algebraic concepts, solutions of linear equations including literal equations, word problems, graphing linear equations. (MATH 094A and MATH 094B are each 5-credit classes.)

**MATH 094B—ELEMENTARY ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 094A with a grade of 2.0 or above or satisfactory placement test score. First degree equations, polynomials, whole number and rational exponents, roots and radicals. (MATH 094A and MATH 094B are each 5-credit classes.)

**MATH 094W—ELEMENTARY ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score. First quarter of the sequence of Elementary Algebra, Intermediate Algebra, and College Algebra. Basic algebraic concepts, first degree equations, polynomials, whole number and rational exponents, roots and radicals, word problems.

**MATH 099—INTERMEDIATE ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 094 or 094B with a grade of 2.0 or above, or satisfactory placement test score. Second course in the sequence of Elementary Algebra, Intermediate Algebra, and College Algebra. Includes systems of equations, factoring, rational expressions, quadratic equations, logarithmic and exponential functions, and graphs of conic sections. A scientific calculator is required.

**MATH 099A—INTERMEDIATE ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 094 or 094B with a grade of 2.0 or above or satisfactory placement test score. First part of MATH 099 = MATH 099A. Includes systems of equations, factoring, quadratic functions, and the quadratic formula. A scientific calculator is required. (MATH 099A and MATH 099B are each 5-credit classes.)

**MATH 099B—INTERMEDIATE ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 099A with a grade of 2.0 or above or satisfactory placement test score. Second part of MATH 099 = MATH 099B. Includes rational expressions, logarithmic and exponential functions, and graphs of conic sections. A scientific calculator is required. (MATH 099A and MATH 099B are each 5-credit classes.)

**MATH 100—APPLIED MATH****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 094 with a grade of 2.0 or above or equivalent. An integrated presentation of topics in arithmetic, algebra, and geometry; problem-solving, estimation, use of right triangle relationships; applications of math in practical, workplace-related problems.

**MATH 107—COLLEGE MATH/LIBERAL ARTS STUDENTS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 099 or MATH 099B with a grade of 2.0 or above, or satisfactory placement test score. Consumer mathematics: Loans, mortgages, interest; logarithms and exponential functions with applications; introductory probability and statistics; use and interpretation of statistics; mathematics in contemporary culture.

**MATH 119—COLLEGE ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 099 or MATH 099B with a grade of 2.0 or above or satisfactory placement test score; a graphing calculator is required. Using numeric, analytic, and graphical methods, linear, polynomial, rational, exponential, and logarithmic functions are studied. Matrices and determinants are included. A graphing calculator is required. (TI 85 is preferred and demonstrated.) (Formerly MATH 105)

**MATH 120—PRECALCULUS WITH TRIGONOMETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 119 with a grade of 2.0 or above or permission of instructor; graphing calculator is required. Using numeric, analytic, and graphical methods, trigonometric functions, and polar and parametric equations are studied. Various topics from discrete mathematics are included. A graphing calculator is required. (TI-85 is preferred and demonstrated.) (Formerly MATH 106)

**MATH 124—CALCULUS AND ANALYTIC GEOMETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 120 with a grade of 2.0 or above or permission of instructor. Functions, limits, and continuity; the derivative, definition, rules, and applications; implicit differentiation; the definite integral; optimization.

**MATH 125—CALCULUS AND ANALYTIC GEOMETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 124 with a grade of 2.0 or above or permission of instructor. Review of definite integrals, techniques of integration, numerical approximation, applications of integration, differential equations: Separable, growth and decay applications.

**MATH 126—CALCULUS AND ANALYTIC GEOMETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 125 with a grade of 2.0 or above or permission of instructor. Series, functions of two variables and their graphs, contour diagrams, vector algebra, dot and cross products, multivariable functions, partial differentiation, gradients, and directional derivatives in the plane and space, optimization, local and global extrema.

**MATH 156—ALGEBRA FOR BUSINESS AND ECONOMICS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 099 with a grade of 2.0 or above or satisfactory placement test score. First in a two-quarter sequence of algebra and calculus focusing on applications in business and economics; functions, including exponential and logarithmic and their graphs; financial formulas, systems of equations, linear programming. Requires use of a graphing calculator.

**MATH 157—CALCULUS FOR BUSINESS AND ECONOMICS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 156 with a grade of 2.0 or above. Second in a two-quarter sequence of algebra and calculus focusing on applications in business and economics; differentiation and integration, curve sketching, optimization; partial derivative. Requires use of a graphing calculator.

**MATH 176—SCIENTIFIC PROGRAMMING WITH JAVA****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 120 with a grade of 2.0 or above or permission of instructor. Solution of Mathematics/Science problems with emphasis on the problem solving methodology and basic programming abilities and concepts in Java.

**MATH 195—INDEPENDENT STUDY**

Can be offered as: MATH 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**MATH 200—HISTORICAL MATHEMATIC PROBLEMS****Cr: 2 Wkly hrs: 2 hours Lecture**

NS-Prerequisite: MATH 125. Historical mathematic problems and solutions will be examined through in-depth study of the individuals responsible for the solution(s) of these problems. (Formerly MATH 198B)

**MATH 210—INTRODUCTION TO DISCRETE MATHEMATICS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 119 with a grade of 2.0 or better. Basic logic, number theory, sequences and series, induction. Counting: Permutations, combinations, probability, binomial theorem. Solving recurrence relations, graphs and trees.

**MATH 220—CALCULUS AND ANALYTIC GEOMETRY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 126 with a grade of 2.0 or above or permission of instructor. Multiple integrals, parametrized curves, motion, velocity and acceleration, vector fields, line integrals, flux integrals, calculus of vector fields, the divergence and curl of a vector field, Stokes' Theorem, Green's Theorem.

**MATH 221—DIFFERENTIAL EQUATIONS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 126 with a grade of 2.0 or above or permission of instructor. First order differential equations. Second order linear equations. Series solutions of second order equations, the laplace transform, numerical methods, and applications with emphasis in Physics and Engineering.

**MATH 250—LINEAR ALGEBRA****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 126 with a grade of 2.0 or above, or permission of instructor. Systems of linear equations, vector spaces and subspaces, inner product spaces, orthogonality, least squares, determinants, eigenvalues, eigenvectors, linear transformations, and applications including systems of 1st order linear differential equations and linear operators on the plane.

**MATH 281—INTRODUCTORY STATISTICS****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 099 or MATH 099B with a grade of 2.0 or above or satisfactory placement test score. Applications of statistics in the context of various fields; descriptive statistics, linear correlation and regression, probability, sampling, the Normal Distribution, confidence intervals, hypothesis testing.

**MEDICAL OFFICE ASSISTANT****MOA 100—ANATOMY/PHYSIOLOGY AND DISEASES I****Cr: 6 Wkly hrs: 6 hours Lecture**

Prerequisite: Minimum ASSET score of 42 in writing and 40 in reading skills or successful completion of Developmental English with recommendation of entrance into ENGL 101. Principles of human anatomy, physiology, and pathophysiology including etiology, symptoms, diagnostics, and treatments.

**MOA 101—MEDICAL TYPING/TRANSCRIPTION I****Cr: 5 Wkly hrs: 2 hours Lecture  
6 hours Lab**

Intermediate/advanced typing specifically for the medical setting with a beginning speed of 55 wpm. Using WP 6.1 typing, grammar, proofreading, medical correspondence, and medical reports completed from hard copy and tape with emphasis on speed and accuracy.

**MOA 102—MEDICAL TRANSCRIPTION LAW AND ETHICS****Cr: 1 Wkly hrs: 1 hour Lecture**

Medical law and ethics as related to medical transcription including legal terminology, professional liability, and the medical record.

**MOA 103—NON-CLINICAL PHARMACOLOGY****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: MOA 160 and ASSET score of at least 43, MATH 090. Course provides an overview of drug therapy and a basis in pharmacology for medical assistants.

**MOA 104—ADVANCED MEDICAL TRANSCRIPTION****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: MOA 161 and MOA 130, or demonstrated equivalent knowledge, typing speed of 60 wpm, and permission of instructor. Transcribing from prepared tapes of medical reports and chart notes with emphasis on speed, accuracy, and correct format and style with increasing content difficulty.

**MOA 106—TELEPHONE TECHNIQUES****Cr: 2 Wkly hrs: 2 hours Lecture**

Telephone techniques for the medical office, with emphasis on receptionist, billing, and collections.

**MOA 110—ANATOMY & PHYSIOLOGY****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: Minimum ASSET scores 42 writing; 40 reading or successful completion of Developmental English with recommendation of entrance into ENGL 101. Principles of human anatomy and physiology as related to Medical Assisting.

**MOA 111—PATHOPHYSIOLOGY FOR MED ASSISTANTS****Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: MOA 110 or concurrent enrollment. The etiology, symptoms, diagnostic procedures, and treatments of common disease systems as they relate to the medical assistant.

**MOA 112—MEDICAL LAW, ETHICS AND BIOETHICS****Cr: 3 Wkly hrs: 3 hours Lecture**

Medical law, ethics and bioethics as related to the ambulatory health care setting, including legal terminology, professional liability.

**MOA 113—PHARMACOLOGY FOR MEDICAL ASSISTING****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: MOA 110, 160, and 136 or a minimum ASSET score of at least 43 in writing and 90 in Math or permission of instructor. Provide overview of drug therapy and basis in Pharmacology for Medical Assistants. Injection techniques included; math as related to dosage calculation.

**MOA 120—MEDICAL OFFICE PROCEDURES I****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: MOA 129 and 161. Basic English and grammar as utilized in the medical office, with emphasis on records management.

**MOA 121—MEDICAL OFFICE PROCEDURES II****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: MOA 120, 129, and 130. General office procedures, with emphasis on patients in medical office and financial records. Continuation of MOA 120.

**MOA 129—MEDICAL TYPING I****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: Enrollment in the MOA program and typing speed of 30 wpm. A keyboarding course specifically for the medical setting with a prerequisite typing speed of 30 wpm. The course includes improvement of keyboarding skills, word processing skills. Medical report formatting using appropriate grammar and punctuation.

**MOA 130—MEDICAL TYPING II****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: MOA 129 and MOA 161; beginning with a typing speed of 35 wpm. Intermediate typing specifically for the medical setting beginning with a typing speed of 35 wpm. Medical typing of case histories, medical correspondence and reports from hard copy with emphasis on speed building and accuracy.

**MOA 131—MEDICAL MACHINE TRANSCRIPTION****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: MOA 120, 130, and 161. Transcribing from prepared tapes of medical reports, chart notes, and articles with emphasis on correct usage and spelling of medical terminology and correct medical format and style.

**MOA 136—EXAMINATION ROOM TECHNIQUES****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: MOA 110 and 161-grade minimum of 2.0. Introduction to basic examination room techniques, including procedures for universal precautions, preparation of the patient, physical environment and maintenance of supplies and equipment.

**MOA 137—LAB PROCEDURES FOR MEDICAL ASSISTANTS**

Can be offered as: MOA 137 and 137L or MOA 137 only (lab included).

**Cr: 4 Wkly hrs: 2 hours Lecture**

Prerequisite: MOA 136, 161 and High School or GED transcript. Introduction to basic lab skills; OSHA rules on bloodborne pathogens; CLIA regulations; infection control; microbiology principles; collection of specimens; hematology, urinalysis and blood chemistry theory and testing; venipuncture and introduction to x-ray.

**MOA 137L—LAB-LAB PROCEDURES/MEDICAL ASSISTANTS****Cr: 0 Wkly hrs: 4 hours Lab**

See MOA 137.

**MOA 151—MOA PROFESSIONAL PREPARATION I****Cr: 1 Wkly hrs: 1 hour Lecture**

This course includes discussion of the personal characteristics of a successful medical assistant, the setting in which medical assistants work, and the skills and responsibilities associated with this profession.

**MOA 152—MOA PROFESSIONAL PREPARATION II****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: MOA 151. Discussion of skills and techniques necessary to effectively function as a medical receptionist.

**MOA 153—MOA PROFESSIONAL PREPARATION III****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: MOA 152. Discussion and independent study of the opportunities of employment in the Medical Office Assistant field with emphasis on the professional responsibilities of the Medical Office Assistant.

**MOA 160—MEDICAL TERMINOLOGY I****Cr: 2 Wkly hrs: 2 hours Lecture**

The roots, suffixes, prefixes, and combining forms used in basic medical terminology. Medical abbreviations are introduced.

**MOA 161—MEDICAL TERMINOLOGY II****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: MOA 160 with a grade of 2.0 or higher. Continuation of MOA 160.

**MOA 163—MEDICAL INSURANCE FORMS****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: MOA 160 or permission of instructor. Introduction to CPT and ICD-9 coding. Common types of insurance coverage used in local physician's offices and clinics are emphasized. Billing for managed care and HMO's guidelines are also included.

**MOA 180—AIDS/HIV/BLOOD BORNE PATHOGENS****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Complete (2) online pretests AIDS/HIV and Blood Borne Pathogen. Online course to meet WA State requirement for professional license in health occupations; fulfills AIDS Omnibus Bill 1988 components for seven hour education on AIDS and OSHA Blood Borne Pathogens.

**MOA 195—INDEPENDENT STUDY**

Can be offered as: MOA 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**MOA 199—PRACTICUM**

Can be offered as: MOA 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**MOA 205—ADVANCED MEDICAL CODING**

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: MOA 163 or basic knowledge of ICD-9 and CPT coding. Advanced CPT and ICD-10-CM coding for maximum reimbursement for physicians offices and clinics.

**MOA 208—EXIT TESTING FOR MOA**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: MOA 110, 111, 112, 120, 129, 130, 136, 151, 152, 160, 161, 163, and 209. Performance based class demonstrating entry level skills for MOA externship.

**MOA 209—MEDICAL OFFICE EMERGENCIES**

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

A course in Basic First Aid/CPR skills, enabling medical assistants to respond within the scope of their training to emergencies in the outpatient setting. OSHA requirements for Blood Borne Pathogen training and standards for Universal Precautions are also covered.

**MOA 210—EXTERNSHIP FOR MEDICAL ASSISTANTS**

**Cr: 6 Wkly hrs: 18 hours Clinic**

Prerequisite: All MOA course work; MOA 211 is taken concurrently; permission of the instructor also necessary. For this course, students are placed in approved medical facilities for a supervised, unpaid office experience as a final preparation for working as a medical assistant.

**MOA 211—HUMAN RELATIONS/MOA**

**Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Concurrent enrollment in MOA 210; all other MOA coursework completed. This course involves the discussion, problem-solving and evaluation of the clinical and administrative experiences gained in MOA 210 Externship.

**MOA 231—ADVANCED MEDICAL MACHINE TRANSCRIPTION**

**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: MOA 130 and 161 or demonstrated equivalent knowledge, typing speed of 50 wpm, and permission of instructor. Transcribing from prepared tapes of medical reports and chart notes, with emphasis on speed, accuracy, and correct format and style, with increasing content difficulty.

**METEOROLOGY****MTEOR 101—WEATHER AND ATMOSPHERE**

Can be offered as: MTEOR 101 and 101L or MTEOR 101 only (lab included).

**Cr: 5 Wkly hrs: 4 hours Lecture**

NS-Prerequisite: ENGL 099 and MATH 094 must be passed with a 2.0 or better. Study of atmospheric components, processes, and weather phenomena. Attention given to measurement instruments, maps, and satellite images, including those on the Internet. Lab included.

**MTEOR 101L—LAB-WEATHER AND ATMOSPHERE**

**Cr: 0 Wkly hrs: 2 hours Lab**

NS-See MTEOR 101.

**MTEOR 195—INDEPENDENT STUDY**

Can be offered as: MTEOR 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**MUSIC****MUSIC 101—FUNDAMENTALS OF MUSIC**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Basic elements of music: Sight reading, study of chords, introduction to piano, pitch recognition, and development of music through computer use. Open to all students.

**MUSIC 102—MUSIC APPRECIATION**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Introduction to music in Western culture from the listener's point of perception. Recommended for students who wish to fulfill Humanities requirements in the area of music. Open to all students.

**MUSIC 103—CONCERT CHOIR**

Can be offered as: MUSIC 103/104/105 and 203/204/205. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Study and performance of representative choral works of all musical style periods.

**MUSIC 106—VOCAL JAZZ ENSEMBLE I (JAZZLINE)**

Can be offered as: MUSIC 106/107/108 and 206/207/208. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

H/SP-Prerequisite: Audition. Study and performance of representative materials in the vocal jazz idiom.

**MUSIC 109—JAZZ BAND I**

Can be offered as: MUSIC 109/110/111 and 209/210/211. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 4 hours Lab**

H/SP-Prerequisite: Audition. Rehearsal, study, and performance of jazz from the "big band" era through modern fusion.

**MUSIC 112—JAZZ BAND II**

Can be offered as: MUSIC 112/113/114 and 212/213/214. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Rehearsal, study, and performance of jazz from the "big band" era through modern fusion.

**MUSIC 117—SYMPHONY ORCHESTRA**

Can be offered as: MUSIC 117/118/119 and 217/218/219. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 1 Wkly hrs: 2 hours Lab**

H/SP-Prerequisite: Audition. The study and performance of representative orchestral works of all style periods. A college and community orchestra. Approximately eight performances per year.

**MUSIC 120—MUSIC THEATRE WORKSHOP**

Can be offered as: MUSIC 120/121/122 and 220/221/222. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Prerequisite: Permission of instructor. Rehearsal and performance of staged and costumed scenes from the musical theatre repertoire. Course will culminate in a performance of selected scenes and will provide each class member performance opportunities.

**MUSIC 123—OLYMPIC COLLEGE CHORALE**

Can be offered as: MUSIC 123/124/125 and 223/224/225. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 1 Wkly hrs: 2 hours Lab**

H/SP-Study and performance of representative choral works of all musical style periods.

**MUSIC 126—VOCAL JAZZ ENSEMBLE II**

Can be offered as: MUSIC 126/127/128 and 226/227/228. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 4 hours Lab**

H/SP-Prerequisite: Audition. Study and performance of representative materials in the vocal jazz idiom.

**MUSIC 130—VOICE CLASS**

Can be offered as: MUSIC 130/131/132. (Fall/Wtr/Spr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Basic vocal production in singing, with consideration of techniques and styles. Open to all students.

**MUSIC 133—BEGINNING CLASS PIANO**

Can be offered as: MUSIC 133/134/135. (Fall/Wtr/Spr).

**Cr: 2 Wkly hrs: 2 hours Lecture**

H/SP-Group and individualized instruction in keyboard techniques. Music theory and finger techniques taught and applied through piano performance.

**MUSIC 136—CLASS GUITAR**

Can be offered as: MUSIC 136/137/138 and 236/237/238. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 2 hours Lecture**

H/SP-Group instruction in guitar techniques. Music theory and elementary repertoire from various playing styles will be utilized. Student provides own instrument.

**MUSIC 144—WIND ENSEMBLE**

Can be offered as: MUSIC 144/145/146 and 244/245/246. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Rehearsal and performance of chamber/wind literature from classical through contemporary mediums. Open to all students and community members, based on ability.

**MUSIC 147A—ELECTRIC BASS**

Can be offered as: MUSIC 147A/148A/149A and 247A/248A/249A.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Prerequisite: Permission of instructor. Individual instruction for electric bass.

**MUSIC 147B—PIANO**

Can be offered as: MUSIC 147B/148B/149B and 247B/248B/249B.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for piano.

**MUSIC 147C—VOICE**

Can be offered as: MUSIC 147C/148C/149C and 247C/248C/249C.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Prerequisite: Permission of instructor. Individual instruction for voice.

**MUSIC 147E—SAXOPHONE/CLARINET**

Can be offered as: MUSIC 147E/148E/149E and 247E/248E/249E.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for saxophone/clarinet.

**MUSIC 147F—BRASS INSTRUMENTS**

Can be offered as: MUSIC 147F/148F/149F and 247F/248F/249F.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for brass instruments.

**MUSIC 147G—PERCUSSION INSTRUMENTS**

Can be offered as: MUSIC 147G/148G/149G and 247G/248G/249G.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for percussion instruments.

**MUSIC 147H—CLASSICAL GUITAR**

Can be offered as: MUSIC 147H/148H/149H and 247H/248H/249H.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Private instruction in basic musicianship as it applies to classical guitar and its role in contemporary music.

**MUSIC 147I—GUITAR**

Can be offered as: MUSIC 147I/148I/149I and 247I/248I/249I.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Prerequisite: Permission of instructor. Individual instruction for guitar.

**MUSIC 147J—CLARINET/LOW WOODWINDS**

Can be offered as: MUSIC 147J/148J/149J and 247J/248J/249J.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for clarinet/low woodwinds.

**MUSIC 147K—LOW BRASS**

Can be offered as: MUSIC 147K/148K/149K and 247K/248K/249K.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for low brass.

**MUSIC 147M—FLUTE**

Can be offered as: MUSIC 147M/148M/149M and 247M/248M/249M.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for flute.

**MUSIC 147P—JAZZ PIANO**

Can be offered as: MUSIC 147P/148P/149P and 247P/248P/249P.

**Cr: 1-2 Wkly hrs: 1 hour Lecture  
5 hours Other**

H/SP-Individual instruction for jazz piano.

**MUSIC 151—SONGWRITING I**

**Cr: 3 Wkly hrs: 3 hours Lecture**

H/SP-Prerequisite: Permission of instructor. A writing course to develop proficiency in composing and arranging basic song elements and forms.

**MUSIC 152—SONGWRITING II**

**Cr: 3 Wkly hrs: 3 hours Lecture**

H/SP-Prerequisite: MUSIC 151. A writing course to develop proficiency in composing and arranging advanced song elements and forms. A continuation of MUSIC 151.

**MUSIC 154—ELECTRONIC MUSIC I**

**Cr: 3 Wkly hrs: 3 hours Lecture**

H-Prerequisite: Permission of instructor. Basic sound design, analog and digital synthesis, digital sampling, synthesizer techniques, MIDI, and sound production.

**MUSIC 155—ELECTRONIC MUSIC II**

**Cr: 3 Wkly hrs: 3 hours Lecture**

H-Prerequisite: MUSIC 154. Advanced sound design, analog and digital synthesis, digital sampling, advanced synthesizer techniques, MIDI, and sound production. A continuation of MUSIC 154.

**MUSIC 157—MULTITRACK RECORDING I**

**Cr: 4 Wkly hrs: 4 hours Lecture**

H-Introduction to the principles, techniques, and aesthetic possibilities of the audio recording chain and its application to various media; fundamentals of audio engineering.

**MUSIC 158—MULTITRACK RECORDING II**

**Cr: 4 Wkly hrs: 4 hours Lecture**

H-Prerequisite: MUSIC 157. Continuation of MUSIC 157. Emphasis on audio recording, remixing, and studio production techniques.

**MUSIC 159—MULTITRACK RECORDING III**

**Cr: 4 Wkly hrs: 4 hours Lecture**

H-Prerequisite: MUSIC 157, 158. Continuation of MUSIC 158. Advanced studio production.

**MUSIC 175—JAZZ IMPROVISATION**

Can be offered as: MUSIC 175/176/177 and 275/276/277. (Fall/Wtr/Spr). (100=1st yr, 200=2nd yr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Prerequisite: Permission of instructor. Introduction to improvisation through the use of scales, chords, melody, and rhythmic devices.

**MUSIC 180—MUSICIANSHIP I**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Extensive study of the basic elements of music and performance, chord structure, scales, harmonic analysis, rhythm/meter, and aural skills will be studied.

**MUSIC 181—MUSICIANSHIP II**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: MUSIC 180. Extensive study of the basic elements of music and performance, chord structure, scales, harmonic analysis, rhythm/meter, and aural skills will be studied.

**MUSIC 182—MUSICIANSHIP III**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: MUSIC 181. Extensive study of the basic elements of music and performance, chord structure, scales, harmonic analysis, rhythm/meter, and aural skills will be studied.

**MUSIC 187—INTRODUCTION TO COMMERCIAL MUSIC**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Course covers various aspects of commercial music: Songwriting, electronic music/synthesizers, multi-track recording, the music business, and professional entertainment.

**MUSIC 188—INTRODUCTION TO WORLD MUSIC**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-A course exploring traditional and urban ethnic music of selected cultures of the world.

**MUSIC 195—INDEPENDENT STUDY**

Can be offered as: MUSIC 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**MUSIC 199—PRACTICUM**

**Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**MUSIC 230—VOICE CLASS**

Can be offered as: MUSIC 230/231/232. (Fall/Wtr/Spr).

**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

H/SP-Prerequisite: MUSIC 130, 131, or 132. A course on the intermediate level in singing, with emphasis on production, style, and repertory. This is a continuation of the beginning 100-level class.

**MUSIC 233—INTERMEDIATE CLASS PIANO**

Can be offered as: MUSIC 233/234/235. (Fall/Wtr/Spr).

**Cr: 2 Wkly hrs: 2 hours Lecture**

H/SP-Prerequisite: Permission of instructor and/or MUSIC 133/134/135. Group and individualized instruction in keyboard techniques. Music theory and finger techniques are taught and applied through piano performance.

**MUSIC 239—JAZZ MUSICIANSHIP I**

**Cr: 4 Wkly hrs: 4 hours Lecture**

H-Extensive study of the basic elements of jazz music and performance. Jazz scales and their use, chord structure, rhythmic structure, and aural skills will be covered.

**MUSIC 240—JAZZ MUSICIANSHIP II**

**Cr: 4 Wkly hrs: 4 hours Lecture**

H-Prerequisite: MUSIC 239. Extensive study of the basic elements of jazz music and performance. Jazz scales and their use, chord structure, rhythmic structure, and aural skills will be covered.

**MUSIC 241—ADVANCED IMPROVISATION**

**Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

H-Prerequisite: Permission of instructor. Extensive study of tune analysis and scale/chord choices over advanced, not-functional harmony. Transcribing recorded solo's and aural skills will also be covered.

**MUSIC 280—MUSICIANSHIP IV**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: MUSIC 182. Discovery of style in the late Renaissance, the common practice period, and after the common practice period through analysis, composition, and performance.

**MUSIC 281—MUSICIANSHIP V**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: MUSIC 182. Discovery of style in the late Renaissance, the common practice period, and after the common practice period through analysis, composition, and performance.

**MUSIC 282—MUSICIANSHIP VI**

**Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: MUSIC 182. Discovery of style in the late Renaissance, the common practice period, and after the common practice period through analysis, composition, and performance.

**NURSING****NURSE 110—PROFESSIONAL ROLE DEVELOPMENT I**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program. The course is designed to introduce the student to the professional concepts of nursing including the history of nursing, role of the student nurse, legal issues, critical thinking and learning styles.

**NURSE 112—PROFESSIONAL ROLE DEVELOPMENT II**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program, successful completion of NURSE 110, 114, 140, 146, 154 and 156; concurrent enrollment in NURSE 116, 118, 142, 158 and 160. This course will examine professional nursing concepts including the role of the nurse, interdisciplinary relationships, and the nursing process.

**NURSE 114—NURSING COMMUNICATIONS**

**Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Admission to the Nursing Program. This course is designed to introduce the student to the Nurse/Client relationship, principals of communication and interviewing, assertiveness, and stress and adaptation.

**NURSE 116—NURSING ETHICS I**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program; concurrent enrollment in or successful completion of NURSE 110, 114, 140, 146, 154, 156. This course will introduce the student to beginning concepts of ethical reasoning, including the values, principals, and guidelines on which nurses base ethical decision-making.

**NURSE 118—NUTRITION FOR PROFESSIONAL NURSING**

**Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Admission to the Nursing Program; concurrent enrollment in or successful completion of NURSE 112, 116, 142, 158, 160, and or permission of instructor. Professional nurse's role in nutritional assessment, client education, dietary requirements for wellness and modifications for physical conditions throughout the lifespan.

**NURSE 140—CLINICAL APPLICATIONS LAB I**

**Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Admission to the Nursing Program; concurrent enrollment in or successful completion of NURSE 110, 114, 116, 146, 154, 156. Clinical Applications Lab I is the first in a series of 3 courses that allow the student to apply and practice theoretical learning within a faculty-facilitated laboratory environment. In this course students will learn and demonstrate the skills of physical assessment, direct nursing care, and documentation.

**NURSE 142—CLINICAL APPLICATIONS LAB II**

**Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 110, 114, 140, 146, 154, 156; concurrent enrollment or successful completion of NURSE 112, 116, 118, 158, 160. This course prepares students to perform skills necessary for care of clients in acute and long term care facilities.

**NURSE 146—NURSING CARE OF THE OLDER ADULT**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing program. This course will introduce students to the growth, development, and physiological changes of the older adult. The concept of ageism and theory regarding dementia will be introduced.

**NURSE 151—DOSAGE CALCULATIONS**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Course teaches mathematical computations used for medication administration and intravenous therapy in clinical practice. Minimum grade of 3.7 required in this course for Nursing Program continuation.

**NURSE 152—INTRODUCTION TO PHARMACOLOGY**

**Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program. This course is designed to teach students the basics of clinical pharmacology.

**NURSE 154—NURSING FOUNDATIONS**

**Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program. Nursing Foundations introduces 1st year, 1st quarter Nursing students to the conceptual underpinnings needed to develop a beginning nursing practice framework. The course focuses on well clients and the nurse empowering the client to maximize their health potential within their environment.

**NURSE 156—CLINICAL NURSING PRACTICE I**

**Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: Admission to the Nursing Program; concurrent enrollment or successful completion of NURSE 154. Student will begin development of the professional role of nursing. Emphasis is placed on assessment analysis and simple problem solving. Helping relationships with families, older adults, and peers will be demonstrated.

**NURSE 158—CLINICAL NURSING THERAPEUTICS**

**Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 110, 114, 140, 146, 154, 156; concurrent enrollment in or successful completion of NURSE 112, 116, 118, 142, 160. This course will introduce concepts related to promoting healthy physiological responses in clients. A nursing process framework will be utilized to foster critical thinking in the professional nursing role.

**NURSE 160—CLINICAL NURSING PRACTICE II**

**Cr: 5 Wkly hrs: 10 hours Lab**

Prerequisite: Admission to the Nursing Program; concurrent enrollment or successful completion of NURSE 154. This course will provide experiences with clients who have alterations in basic physiological functioning. Emphasis is placed on utilizing the nursing process and implementation of therapeutic nursing interventions.

**NURSE 170—TRANSITION/ADN—THEORY**

**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: Current Washington State LPN license or equivalent; completion of all prerequisites and required support courses. This course is designed to provide licensed practical nurses, and others who qualify, a transition for entry into the second year of the Nursing Program. A minimum 2.7 grade point is required for program progression.

**NURSE 172—MENTAL HEALTH THEORY**

**Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program; concurrent enrollment in NURSE 174 and successful completion of NURSE 160. This course will present the nurse's role in assessing and intervening with clients who, as a result of a mental illness, have alterations in mood, personal identity, and coping.

**NURSE 174—MENTAL HEALTH CLINICAL**

**Cr: 3 Wkly hrs: 9 hours Clinic**

Prerequisite: Successful completion of NURSE 110, 112, 114, 116, 118, 140, 142, 146, 151, 152, 154, 156, 158, 160; successful completion or concurrent enrollment in NURSE 172. Students will apply the nursing process, crisis intervention, and therapeutic communication techniques in caring for clients with alterations in mental health.

**NURSE 176—NURSING CARE OF PEDIATRIC CLIENTS**

**Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program. Prepares students to care for pediatric clients, focusing on promotion and maintenance of family health, related to the physical, psychosocial, and emotional development of children.

**NURSE 177—PEDIATRIC CLINICAL****Cr: 3 Wkly hrs: 9 hours Clinic**

Prerequisite: Successful completion of NURSE 110, 112, 114, 116, 118, 140, 142, 146, 151, 152, 154, 156, 158, 160; successful completion of or concurrent enrollment in NURSE 176. This course allows students to provide direct care of pediatric clients and families, applying theoretical concepts learned in NURSE 176, in a variety of clinical settings.

**NURSE 178—MATERNAL-NEWBORN NURSING****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 110, 112, 114, 116, 118, 140, 142, 146, 151, 152, 154, 156, 160; concurrent enrollment in or successful completion of NURSE 158, 179. Designed as introduction of the professional nurse's role during the perinatal period includes clients who are experiencing complications and women's health issues.

**NURSE 179—MATERNAL-NEWBORN CLINICAL****Cr: 3 Wkly hrs: 3 hours Clinic**

Prerequisite: Successful completion of NURSE 110, 112, 114, 116, 118, 140, 142, 146, 151, 152, 154, 156, 158, 160; successful completion of or concurrent enrollment in NURSE 178. Application of theoretical content to care of perinatal and gynecology clients. Utilization of nursing process and critical thinking in the clinical setting.

**NURSE 180—MEDICAL SURGICAL NURSING I****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program; successful completion of all prior required Nursing Program courses; concurrent enrollment in NURSE 181. Prepares students to care for adult, medical-surgical clients in acute and outpatient clinical settings. This course builds on the foundation students learned in NURSE 154 and NURSE 158.

**NURSE 181—MEDICAL-SURGICAL CLINICAL****Cr: 3 Wkly hrs: 9 hours Clinic**

Prerequisite: Admission to the Nursing Program; successful completion of all prior required Nursing Program courses; concurrent enrollment in NURSE 180. Provides students with opportunities to apply theoretical concepts learned in NURSE 180 and to utilize the nursing process primarily with adult clients in an acute care setting.

**NURSE 195—INDEPENDENT STUDY**

Can be offered as: NURSE 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**NURSE 200—PROFESSIONAL ROLE DEVELOPMENT III****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 172, 174, 176, 177, 178, 179, 180, 181, 202; concurrent enrollment in NURSE 204 208 and 210. The course will examine concepts of leadership and management utilized by the RN in providing care to a group of clients and in the role of team leader.

**NURSE 202—CLINICAL APPLICATIONS LAB III****Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 172, 174 and 180, 181 or NURSE 176, 177 and 178, 179. The course prepares students to perform certain nursing care procedures and to manage clients with various types of therapies involving equipment. A nursing process framework is utilized.

**NURSE 204—NURSING ETHICS II****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 172, 174, 176, 177, 178, 179, 180 181 and 202; successful completion or concurrent enrollment in NURSE 200, 208 and 210. The student will apply ethical theory, concepts, and decision-making processes to client case studies.

**NURSE 208—MEDICAL SURGICAL NURSING II****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Admission to the Nursing Program. Successful completion of NURSE 172, 174, 180, 181, 176, 177, 178, 179 and 202; concurrent enrollment in NURSE 200, 204, and 210. This course will link pathophysiological changes related to particular disease entities and the client care needed to facilitate positive adaptation in the client's response.

**NURSE 210—CLINICAL NURSING PRACTICE III****Cr: 5 Wkly hrs: 10 hours Lab**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 172, 174, 176, 177, 178, 179, 180, and 181; successful completion or concurrent enrollment in NURSE 200, 202, 204 and 208. Integration of previous learning and application of theoretical concepts to clinical practice with emphasis on critical thinking and the nursing process.

**NURSE 212—PROFESSIONAL ROLE DEVELOPMENT/MENTOR****Cr: 8 Wkly hrs: 16 hours Lab**

Prerequisite: Admission to the Nursing Program; successful completion of NURSE 200, 204, 208 and 210. Mentoring provides a transition from the student to RN role. Integration of all learning is utilized to strengthen the role of provider of care, manager of care and member of the profession.

**NURSE 252—PHARMACOLOGY REVIEW****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: NURSE 152 or permission of instructor. The course is designed to enhance the student's clinical nursing practice application of pharmacology including mechanism of action, drug classification, nursing considerations and significant patient education necessary for the most commonly prescribed medications.

**OFFICE TECHNOLOGY****OFTEC 101—ONE-HANDED KEYBOARD****Cr: 3 Wkly hrs: 6 hours Lab**

Students will learn and develop skill in alphanumeric keyboarding and 20-key data entry using a one-handed keyboard.

**OFTEC 102—SCREEN MAGNIFICATION****Cr: 1 Wkly hrs: 2 hours Lab**

Students will acquire the skills and knowledge to access and manipulate text using screen magnification.

**OFTEC 103—BRAILLE TRANSLATION AND PRINTING****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: OFTEC 104. Comprehensive introduction to translating an ink-print document into Braille using a Braille translation program and printing in Braille.

**OFTEC 104—VOICE OUTPUT LEVEL 1****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: Keyboard skills. An introduction to the basics of voice-output software using JAWS for Windows. Provides instruction on using basic keyboard commands that allow students to access and hear text voiced on the computer screen.

**OFTEC 105—VOICE OUTPUT LEVEL 2****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: OFTEC 104. Students will build on the knowledge learned in OFTEC 104. Course provides instruction on producing, reading, and manipulating a word processing document using PC cursor commands to access menu bars and icons.

**OFTEC 106—VOICE OUTPUT LEVEL 3****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: OFTEC 105. Students will build on the knowledge learned in OFTEC 105. Provides instruction on the use of voice output to access and read graphic based, mouse driven environments, such as Windows desktop and web pages.

**OFTEC 107—VOICE RECOGNITION LEVEL 1****Cr: 3 Wkly hrs: 6 hours Lab**

Introduction to the fundamentals of voice-activated software using DragonDictate. Provides instruction on using basic voice-activated input commands, including how to build voice files, dictate a simple written document, and correct errors.

**OFTEC 108—VOICE RECOGNITION LEVEL 2****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: OFTEC 107. Builds on the fundamentals of voice recognition learned in OFTEC 107. Provides instruction on using intermediate voice-activated input commands, focusing on how to format and manipulate a document.

**OFTEC 109—VOICE RECOGNITION LEVEL 3****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: OFTEC 108. Students will build on the knowledge learned in OFTEC 108. Course provides instruction on using advanced voice commands to imitate a mouse driven environment related to Windows and the internet.

**OFTEC 110—BEGINNING KEYBOARDING****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Learn and develop skill in alphanumeric keyboarding, 10-key data entry, basic computer functions, and basic document formatting.

**OFTEC 111—SPEED AND ACCURACY KEYBOARDING****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 110 or equivalent. The objectives of the course are to improve both speed and accuracy of alphabetical and numerical keyboarding skills using the touch system and to provide training in keyboarding test techniques. (Formerly BS-EC 111)

**OFTEC 112—INTRODUCTION TO WORD PROCESSING****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 135 or OFTEC 141, keyboarding proficiency at 30+ NWAM or permission of instructor. Develop industry-standard formatting and production skills with MS Word or WordPerfect word processing software by keying letters, memos, reports, tables, agendas, minutes of meetings, itineraries, financial statements, etc. Includes mail merge, use of graphics, editing/proofreading, and keyboarding skill development. (Formerly BS-EC 112)

**OFTEC 115—SPEED AND ACCURACY KEYBOARDING**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: OFTEC 111; course designed to improve skill beyond that achieved in OFTEC 111. The objectives of the course are to improve both speed and accuracy of alphabetical and numerical keyboarding skills using the touch system and to provide training in keyboarding test techniques. (Formerly BS-EC 111A)

**OFTEC 121—PRACTICAL ACCOUNTING**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: Numerical skills ASSET score of 43 or higher, completion of MATH 090 with a grade of 2.0 or higher, or permission of instructor. Modern record keeping and accounting theory, with adaptations of these fundamentals to small business and professional situations. (Formerly BS-EC 121)

**OFTEC 123—PAYROLL ACCOUNTING**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: OFTEC 121 or BS-EC 251 with a grade of 2.0 or higher. A course designed to provide information and study regarding the benefits, taxes, payroll deductions, and employment accounting records incidental to the social security and tax program. (Formerly BS-EC 123)

**OFTEC 124—ELECTRONIC PRINTING CALCULATORS**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Control and operation of electronic printing and display calculators. Emphasis on attaining minimum office proficiency. (Formerly BS-EC 124)

**OFTEC 126—INTRODUCTION TO MS PUBLISHER**

Cr: 1 Wkly hrs: 1 hour Lecture

A practical, hands-on approach to using Microsoft Publisher for designing and creating newsletters, stationery, flyers, brochures, and other common business documents. Text required. (Pass/No Credit) (Same as CMPTR 126)

**OFTEC 129—MS EXCEL ADVANCED**Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

Prerequisite: OFTEC 152 or pass MOUS Excel proficiency or permission of instructor. Comprehensive approach to learning the advanced commands in MS Excel 2000. Prepares completers to utilize Excel in business settings and over the web or pass the MOUS Excel Expert Exam. (Same as CMPTR 129) (Formerly BS-EC 129)

**OFTEC 130—ACCOUNTING SIMULATION/SERV BUSINESS**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: OFTEC 121 or BS-EC 251. Simulated accounting application involving the accounting cycle for a service business. (Formerly BS-EC 130)

**OFTEC 131—ACCOUNTING SIMULATION/MERCH BUSINESS**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: OFTEC 121 or BS-EC 251. Simulated accounting application involving the accounting cycle for a merchandising business. (Formerly BS-EC 131)

**OFTEC 132—ACCOUNTING SIMULATION/CORPORATION**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: BS-EC 252. Simulated accounting application involving the accounting cycle for a corporation. (Formerly BS-EC 132)

**OFTEC 134—COMPUTERIZED ACCOUNTING**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: OFTEC 121 or BS-EC 251 and OFTEC 110 with a grade of 2.0 or higher, or permission of instructor. A hands-on, realistic approach to computerized, integrated accounting for students who have had a beginning course in bookkeeping or accounting. (Formerly BS-EC 134)

**OFTEC 135—WORDPERFECT BASICS**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

A practical, hands-on approach to WordPerfect 8.0 Windows for the non-professional word processor. (Same as CMPTR 135) (Formerly BS-EC 135)

**OFTEC 139—QUICKBOOKS**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: CMPTR 150 and OFTEC 121 or BS-EC 251 or permission of instructor. This course will provide a foundation in QuickBooks software. It will cover a review of fundamental accounting principles and include practical applications.

**OFTEC 140—BUSINESS AND PERSONAL MATHEMATICS**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score. A course designed to develop the mathematical knowledge needed by college students to meet the demands of modern business. Emphasis is placed on developing the ability to solve practical business problems quickly and accurately. (Formerly BS-EC 140)

**OFTEC 141—MS WORD BASICS**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: CMPTR 150 or permission of instructor. Comprehensive approach to learning the basic commands in MS Word 2000. Prepares completers to utilize Word in business settings or pass the MOUS Word Core Exam. (Same as CMPTR 141) (Formerly BS-EC 135A)

**OFTEC 142—MICROSOFT PUBLISHER BASICS**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: OFTEC 110 or equivalent proficiency. Develop industry-standard desktop publishing skills with a practical, hands-on approach to Microsoft Publisher. Design and create newsletters, stationery, flyers, brochures, and other common business documents. Emphasis on problem solving, publication design, and proofreading/editing skills. (Same as CMPTR 142)

**OFTEC 152—SPREADSHEET FOR BUSINESS: EXCEL**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: CMPTR 150. Comprehensive approach to learning the basic commands in MS Excel 2000. Prepares completers to utilize Excel in business settings, pass the MOUS Excel Core Exam, or meet entrance requirements for the UW Business School. (Formerly BS-EC 137A)

**OFTEC 156—BUSINESS ENGLISH**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: ASSET test assessment at college level reading and writing or ENGL 099. A business-centered approach to improving writing skills by reviewing grammar, language usage, structure, English mechanics, editing, proofreading, and spelling. (Formerly BS-EC 156)

**OFTEC 162—GENERAL OFFICE PROCEDURES**Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

Prerequisite: OFTEC 110 or keyboarding proficiency at 35+ wpm or permission of instructor. Office procedures including introduction to the office environment, receptionist duties, equipment and supply control, banking services, payroll procedures, mail responsibilities, and resume/job hunting techniques. (Formerly BS-EC 119)

**OFTEC 170—RECORDS AND DATABASE MANAGEMENT**

Cr: 5 Wkly hrs: 5 hours Lecture

Prerequisite: CMPTR 150, keyboarding proficiency at 25 wpm, or permission of instructor. A study of the principles and practices of records storage and retrieval using manual and automated database systems; includes ARMA rules and introduction to Access 2000. (Formerly BS-EC 174)

**OFTEC 175—LEGAL TERMINOLOGY**

Cr: 5 Wkly hrs: 5 hours Lecture

A study of legal terminology including definitions, spelling, and correct usage in legal communications and case law. (Formerly BS-EC 274)

**OFTEC 180—INTEGRATION OF SOFTWARE APPLICATIONS**

Cr: 2 Wkly hrs: 2 hours Lecture

Prerequisite: CMPTR 150 or permission of instructor. Complete projects using several computer application platforms and the world wide web to reinforce understanding of and proficiency in using and integrating between word processing, spreadsheet, database, and presentation software applications. This course will accommodate several audiences, including, but not limited to, students needing elective credit and wanting to strengthen their computer application skills beyond core expectations to the potential student currently employed and seeking to enhance their professional growth in computer applications.

**OFTEC 195—INDEPENDENT STUDY**

Can be offered as: OFTEC 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**OFTEC 212—MACHINE TRANSCRIPTION**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: OFTEC 112 or permission of instructor. Introduction to the technical skill of machine transcription to produce correspondence that meets office standards. Includes applied language skill review, document formatting, proofreading, editing, listening, and decision-making skills. Information on various career fields in business is included.

**OFTEC 213—LEGAL TYPING AND TRANSCRIPTION**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

Prerequisite: OFTEC 112 or permission of instructor. Legal typing simulations and advanced practice using a word processing program and a transcription machine with emphasis on accuracy, correct formatting, and proper English usage in legal documents. For students intending to work in law offices. (Formerly BS-EC 113)

**OFTEC 214—ADVANCED WORD PROCESSING****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 112, keyboarding proficiency at 50+ NWAM, or permission of instructor. Develop advanced industry-standard formatting and production skills with MS Word or WordPerfect word processing software; includes advanced production skill development with rough-draft business documents; emphasis on problem-solving, formatting decision skills, proof-read/editing, and advanced software techniques. (Formerly BS-EC 114)

**OFTEC 224—PRACTICAL FUND ACCOUNTING****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: BS-EC 251 and BS-EC 252 with a grade of 2.0 or higher. Accounting and reporting concepts, standards, and procedures applicable to: State and local governments, the federal government, and not-for-profit institutions.

**OFTEC 226—BUSINESS TAXATION****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: OFTEC 121 or BS-EC 251. Study of federal income taxation and Washington State business taxation and its application to individuals and business entities. (Formerly BS-EC 290)

**OFTEC 235—MS WORD ADVANCED****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Prerequisite: OFTEC 141, or pass MOUS Word proficiency or permission of instructor. Comprehensive approach to learning the advanced commands in MS Word 2000. Prepares completers to utilize Word in business settings and on the web or pass the MOUS Word Expert Exam. (Same as CMPTR 235) (Formerly BS-EC 235)

**OFTEC 256—BUSINESS CORRESPONDENCE****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: OFTEC 156 or permission of instructor; keyboarding ability. Effective composition for business of letters, memos, and reports. Includes writing style, tone, grammar, punctuation, and vocabulary. Recommended for all business administration and office technology students. (Formerly BS-EC 256)

**OFTEC 262—ADMINISTRATIVE OFFICE MANAGEMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: OFTEC 162 or one year general office support work experience. Designed for students with sophomore standing who are completing the 2 year ATA degree in Administrative Office Support, or the Office Management core within Business Management, or for currently employed office personnel desiring to expand their knowledge of office management. Emphasis will be on environments, and employees, including hiring, supervision, motivation, performance appraisal, training, and productivity. (Formerly BS-EC 272)

**OFTEC 275—LEGAL OFFICE PROCEDURES****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: OFTEC 162 or permission of instructor. An introductory course to legal office work highlighting the requirements, environment, and duties of legal secretaries. Course work includes legal vocabulary, general legal office duties, preparation of documents, and legal research. (Formerly BS-EC 273)

**PARENT EDUCATION****PARED 015—PARENT/CHILD COOPERATIVES**

Can be offered as: PARED 015/016/017.

**Cr: 1-2 Wkly hrs: 2 hours Lecture**

Prerequisite: Child must be enrolled in preschool/childcare center/elementary school. Provides opportunity for parents to learn about child development from infancy to nine years in a school setting. Classes with instructor provide discussion on appropriate child-rearing practices. (Pass/No Credit)

**PARED 025—STORYTELLING****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

This course fosters literacy appreciation, enhances personal communication, and nurtures a positive attitude towards personal culture and traditions and the culture and traditions of others.

**PARED 115—PARENT/CHILD COOPERATIVE****Cr: 1-2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Child enrolled in O.C. Parent Child Co-op Preschool or O.C. Child Care or permission of instructor. Parents learn about the development of their young children. Classes with the instructor provide information regarding parenting strategies and techniques. May be taken instead of PARED 015 for college credit. Additional assignments are required.

**PARED 116—PARENT/CHILD COOPERATIVE****Cr: 1-2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Child enrolled in O.C. Parent Child Co-op Preschool or O.C. Child Care or permission of instructor. Parents learn about the development of their young children. Classes with the instructor provide information regarding parenting strategies and techniques. May be taken instead of PARED 016 for college credit. Additional assignments are required.

**PARED 117—PARENT/CHILD COOPERATIVE****Cr: 1-2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Child enrolled in O.C. Parent Child Co-op Preschool or O.C. Child Care or permission of instructor. Parents learn about the development of their young children. Classes with the instructor provide information regarding parenting strategies and techniques. May be taken instead of PARED 017 for college credit. Additional assignments are required.

**PARED 122—PARENT-CHILD RELATIONSHIP****Cr: 3 Wkly hrs: 3 hours Lecture**

The students learn to apply basic human behavioral concepts to adult/child relationships. They learn effective skills to deal with problems encountered, with particular emphasis on parent/child relationships (Same as PSYCH 122)

**PARED 125—FOSTER PARENTING****Cr: 6 Wkly hrs: 6 hours Lecture**

This course is designed to develop the student's understanding of self-concept, permanence, separation, development of children in foster care, discipline, and communication in foster parenting.

**PARED 130—INDEPENDENT LIVING****Cr: 4 Wkly hrs: 4 hours Lecture**

This course provides an opportunity for foster parents to understand the dynamics of and utilize appropriate techniques for assisting teens in foster care to develop independent living skills.

**PARED 140—FAMILIES WITH EXCEPTIONAL CHILDREN****Cr: 3 Wkly hrs: 3 hours Lecture**

Support parents, teachers, and social workers in identifying children with disabilities or learning disorders and help them understand the collaborative role of the family in intervention. (Same as FSS 140)

**PARED 141—PREGNANCY AND EARLY INFANCY****Cr: 3 Wkly hrs: 3 hours Lecture**

This course provides opportunity for pregnant women/new parents to learn about pre, post, and neonatal needs and how to care for mother and infant. Classes provide discussion on related issues. (Same as FSS 141)

**PARED 142—INFANT AND PARENT INTERACTION****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: Child 6 months old or younger. Provides the parent with the opportunity to learn about child development and have a positive modeling environment. The course focuses on concerns, problems and developmental issues of infancy. The classes offer the parents the opportunity to interact with their child and have a parent educator available for instruction. (Same as FSS 142)

**PARED 151—BLENDED FAMILY****Cr: 2 Wkly hrs: 2 hours Lecture**

Students focus on the increasing prevalence of the blended family: The family composed of parents and children from previous families. Strengths, challenges and opportunities are identified. (Same as SOCIO 151)

**PARED 195—INDEPENDENT STUDY**

Can be offered as: PARED 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PARED 199—PRACTICUM**

Can be offered as: PARED 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the Parent Education program or discipline.

**PARED 210—PARENT EDUCATION THEORY AND PRACTICE****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: PSYCH 224 or SOCIO 135 with a minimum of three years' experience working directly with children and families; in special circumstances, combinations of experience, education, and training may be substituted for the prerequisites. Course prepares students to plan and implement Parent Education and Family Support programs. A broad range of Parent Education curricula and implementation strategies will be reviewed and evaluated.

**PARED 280—SPECIAL EDUCATION FIELD EXPERIENCE****Cr: 1-5 Wkly hrs: 10 hours Lab**

Prerequisite: ECE 150 or PARED 140 and at least two ECE curriculum courses. This course helps students to develop skills to work with children with special needs and to develop curricula that will foster positive developmental outcomes. (Same as ECE 280)

**PHILOSOPHY****PHILO 101—INTRODUCTION TO PHILOSOPHY****Cr: 5 Wkly hrs: 5 hours Lecture**

H/SS-Introduction to philosophical questions that deal with rational inquiry in the various areas of philosophical study: metaphysics, epistemology, ethics, religion, and other areas.

**PHILO 115—CRITICAL THINKING****Cr: 5 Wkly hrs: 5 hours Lecture**

H/SS-Emphasis on analyzing, evaluating, and constructing thought in a clear logical fashion with application to other fields. A non-symbolic approach to logic and critical thinking.

**PHILO 120—INTRODUCTION TO LOGIC****Cr: 5 Wkly hrs: 5 hours Lecture**

SS/NS-Introduction to the major thinkers and philosophies that have shaped the Western political tradition. This includes philosophers from Socrates to Sartre, and involves an understanding of both philosophy and politics. (Same as POL-S 185)

**PHILO 185—INTRO—HISTORY OF POLITICAL THOUGHT****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An introduction to the major thinkers and philosophies that have shaped the Western political tradition. This includes philosophers from Socrates to Sartre, and involves an understanding of both philosophy and politics. (Same as POL-S 185)

**PHILO 195—INDEPENDENT STUDY**

Can be offered as: PHILO 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PHILO 240—INTRO TO ETHICS (MORAL PHILOSOPHY)****Cr: 5 Wkly hrs: 5 hours Lecture**

H/SS-This course will examine the normative moral theories and the application of moral theory to ongoing moral problems, such as euthanasia, death penalty, privacy, abortion, civil rights, etc.

**PHILO 241—KIERKEGAARD/EXISTENTIALISM****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Explores the influence of Kierkegaard on the existentialists. Themes addressed: the process of becoming a self; freedom; absurdity; despair; faith; anxiety; passion; the limits of philosophical inquiry and communication.

**PHYSICAL EDUCATION—  
EDUCATION****PE-ED 104—HEALTH SCIENCE****Cr: 2 Wkly hrs: 2 hours Lecture**

SS-Survey course of health issues: Emotional and physical health topics, drug abuse, lifestyle diseases, sexuality issues, consumerism, environmental/occupational health, and death and dying.

**PE-ED 105—COLLEGE FIRST AID AND COMMUNITY CPR****Cr: 3 Wkly hrs: 3 hours Lecture**

Study of prevention of heart disease and practical skills leading to First Aid & CPR certifications. Students engage in writing and oral presentation projects.

**PE-ED 107—PERSONAL WELLNESS****Cr: 3 Wkly hrs: 3 hours Lecture**

SS-Focus on major wellness factors (stress management, tobacco use, nutrition, and fitness) as they impact individuals. Students engage in internet/library research, writing and presentation projects.

**PE-ED 108—INFANT/CHILD CPR AND WELLNESS****Cr: 2 Wkly hrs: 2 hours Lecture**

Expanded course in Infant/Child CPR, using American Red Cross (ARC) standards. Successful completion of ARC written and skill tests can lead to Red Cross certification.

**PE-ED 109—BASIC CPR****Cr: 1 Wkly hrs: 1 hour Lecture**

Course is Basic Adult CPR using American Red Cross (ARC) Standards. (Pass/No Credit)

**PE-ED 110—BASIC FIRST AID****Cr: 1 Wkly hrs: 1 hour Lecture**

Course in Basic First Aid using American Red Cross (ARC) Standards. (Pass/No Credit)

**PE-ED 195—INDEPENDENT STUDY**

Can be offered as: PE-ED 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PE-ED 199—PRACTICUM**

Can be offered as: PE-ED 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

Practical application in the working world of the basic theories studied in the above program or discipline.

**PHYSICAL EDUCATION—  
FITNESS AND SPORTS****PEFSP 106—GOLF**

Can be offered as: PEFSP 106/206.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills of golf, proper equipment usage, etiquette, and rules necessary to play golf as a recreational sport.

**PEFSP 109—SELF DEFENSE**

Can be offered as: PEFSP 109/209.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills necessary to defend yourself and/or others in the event you are confronted by an attacker/assailant.

**PEFSP 110—KARATE**

Can be offered as: PEFSP 110/210.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills of karate and develops an understanding of karate as an art form.

**PEFSP 113—TENNIS**

Can be offered as: PEFSP 113/213.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills of tennis, scoring, game strategies, and rules necessary to play tennis as a recreational sport.

**PEFSP 126—BASKETBALL**

Can be offered as: PEFSP 126/226.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills of basketball, team strategies of offense and defense, and rules necessary to play basketball as a recreational sport. (Pass/No Credit)

**PEFSP 128—BASKETBALL**

Can be offered as: PEFSP 128/228.

**Cr: 2 Wkly hrs: 4 hours Lab**

Course emphasizes the fundamental skills of basketball, team strategies of offense and defense and rules necessary to play basketball as a recreational sport. (Pass/No Credit)

**PEFSP 130—VOLLEYBALL**

Can be offered as: PEFSP 130/230.

**Cr: 1 Wkly hrs: 2 hours Lab**

Course emphasizes the fundamental skills of volleyball, offenses, defenses, and rules necessary to play volleyball as a recreational sport. (Pass/No Credit)

**PEFSP 132—VOLLEYBALL**

Can be offered as: PEFSP 132/232.

**Cr: 2 Wkly hrs: 4 hours Lab**

Course emphasizes the fundamental skills of volleyball, offenses, defenses, and rules necessary to play volleyball as a recreational sport.

**PEFSP 145—AEROBIC FITNESS**

Can be offered as: PEFSP 145/245.

**Cr: 2 Wkly hrs: 4 hours Lab**

Explores the concepts of improving aerobic fitness and function. Uses vigorous exercise (including running, jumping, aerobic dance, step, bike, and outdoor exercise) and related assignments.

**PEFSP 147—FUNCTIONAL FITNESS**

Can be offered as: PEFSP 147/247.

**Cr: 2 Wkly hrs: 4 hours Lab**

Course using techniques from Ashtanga yoga, physio-ball training, core stabilization, and Pilates-type exercises to improve functional movement skills, balance, and coordination.

**PEFSP 152—LIFETIME FITNESS****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

Concepts of improving all major components of fitness. Vigorous exercise including heavy weight lifting, running, jumping, and academic assignments/projects. (Formerly PEFSP 150)

**PEFSP 155—STRENGTH & FLEXIBILITY TRAINING**

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

Exploration of the concepts of improving fitness and function through strength and flexibility training. Student participates in vigorous exercise and academic assignments.

**PEFSP 157—PRESCRIPTION LIFETIME FITNESS**

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

Prerequisite: Completed Prescription Lifetime Fitness Medical Form; Pick up from Russell Slauch, BSC 113; or Access Services. For students with medical conditions limiting participation in standard exercise. Does not provide Personal Training/Rehabilitation services. Oral and written academic projects are included.

**PEFSP 160—VARSITY TEAM—FASTPITCH**

Can be offered as: PEFSP 160/260.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Theory and conditioning for offensive and defensive team play necessary for successful competitive fastpitch. For students participating in the Fastpitch team.

**PEFSP 161—VARSITY TEAM—VOLLEYBALL**

Can be offered as: PEFSP 161/261.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Theory and conditioning for offensive and defensive team play necessary for successful competitive volleyball. For students on varsity volleyball.

**PEFSP 162—VARSITY TEAM—BASEBALL**

Can be offered as: PEFSP 162/262.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Theory and conditioning for offensive and defensive team play necessary for successful competitive baseball. For students on Varsity Baseball.

**PEFSP 163—VARSITY TEAM BASKETBALL—MEN**

Can be offered as: PEFSP 163/263.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Theory and conditioning for offensive and defensive team play necessary for successful competitive basketball. For student on Varsity Men's Basketball.

**PEFSP 164—VARSITY TEAM BASKETBALL—WOMEN**

Can be offered as: PEFSP 164/264.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Theory and conditioning for offensive and defensive team play necessary for successful competitive basketball. For students on Varsity Women's Basketball.

**PEFSP 175—JOGGING/AEROBICS**

Can be offered as: PEFSP 175/275.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Exploration of concepts of improving lifetime aerobic fitness. Students will jog a variety of distances and courses with sufficient stimulus to produce aerobic fitness.

**PEFSP 176—SLIMNASTICS/AEROBICS**

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

Individualized exercise program that develops strength, flexibility and cardiovascular fitness. Students will explore types of exercise programs, weight management concepts, and emotional well being.

**PEFSP 178—AEROBIC WALKING**

Can be offered as: PEFSP 178/278.

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Exploration of concepts of improving lifetime aerobic fitness. Students will walk a variety of distances and courses with sufficient stimulus to produce aerobic fitness.

**PEFSP 181—WEIGHT MANAGEMENT AND EXERCISING**

Can be offered as: PEFSP 181/281.

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

For students ten or more pounds overweight that want to develop an exercise program for fitness and learn concepts for weight management.

**PEFSP 185—RECREATIONAL SWIMMING**

Can be offered as: PEFSP 185/285.

**Cr: 1**    **Wkly hrs: 2 hours Lab**

Prerequisite: Some experience in a water environment, i.e. ability to float and perform any stroke for 25 yards. Course emphasizes the fundamental skills of basic water sports, including: Safety, drown-proofing, basic strokes, and diving.

**PEFSP 195—INDEPENDENT STUDY**

Can be offered as: PEFSP 195/295.

**Cr: 1-5**    **Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PEFSP 199—PRACTICUM**

Can be offered as: PEFSP 199/299.

**Cr: 1-5**    **Wkly hrs: 10 hours Lab**

Practical application in the working world of the basic theories studied in the above program or discipline.

**PEFSP 252—LIFETIME FITNESS**

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Supervised setting for continued improvement in lifetime fitness. Students engage in a project or paper demonstrating further depth in the subject matter. (Formerly PEFSP 250)

**PEFSP 255—STRENGTH & FLEXIBILITY TRAINING**

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Further exploration of and improvement in strength and flexibility training. Student participates in vigorous exercise and course project.

**PEFSP 257—PRESCRIPTION LIFETIME FITNESS**

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor, successful completion of PEFSP 157 with a grade of 2.0 or better, and completed Prescription Lifetime Fitness Medical Form; See Russell Slauch, BSC 113. Supervised setting for continuation of concepts presented in PEFSP 157, as well as further improvement in overall fitness. Academic project included.

**PEFSP 276—SLIMNASTICS/AEROBICS**

**Cr: 2**    **Wkly hrs: 4 hours Lab**

Prerequisite: PEFSP 176. Supervised setting for continued progress in an individualized exercise program that develops strength, flexibility, and cardiovascular fitness.

**PHYSICAL EDUCATION—  
RECREATION AND DANCE****PE-RD 140—BALLET**

Can be offered as: PE-RD 140/240.

**Cr: 1**    **Wkly hrs: 2 hours Lab**

H/SP-Students study the history and cultural background of ballet, technique and choreography, postural development/body placement, and terminology.

**PE-RD 143—JAZZ DANCE**

Can be offered as: PE-RD 143/243.

**Cr: 1**    **Wkly hrs: 2 hours Lab**

H/SP-Students study the history and culture of Jazz dance, basic choreography and isolation technique, musical phrasing, and biomechanics for Jazz technique.

**PE-RD 146—FOLK AND LINE DANCING**

Can be offered as: PE-RD 146/246.

**Cr: 1**    **Wkly hrs: 2 hours Lab**

H/SP-Basic folk and line dances, ethnic origins of selected dances, and social dancing skills.

**PE-RD 147—BALLROOM/SWING DANCE**

Can be offered as: PE-RD 147/247.

**Cr: 1**    **Wkly hrs: 2 hours Lab**

Students study the history and cultural background in the Foxtrot, Waltz, Swing, Rumba, Cha-Cha, Samba, and Tango dances. Students will also study technique, choreography, postural development/body placement, and terminology.

**PE-RD 161—SKIING/SNOW BOARD**

Can be offered as: PE-RD 161/261.

**Cr: 2**    **Wkly hrs: 1 hour Lecture**  
**2 hours Lab**

Instruction and practice in the basic skills of skiing/snow boarding.

**PE-RD 165—CROSS COUNTRY SKIING**

Can be offered as: PE-RD 165/265.

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

Basic through advanced cross country ski techniques, including equipment and clothing.

**PE-RD 170—BACKPACKING AND SURVIVAL**

**Cr: 3**    **Wkly hrs: 1 hour Lecture**  
**4 hours Lab**

Explore topics related to camping, travel and survival techniques in the outdoors. Includes a minimum of 6 hiking/backpacking field trips. (Formerly PE-RD 171)

**PE-RD 172—BASIC MOUNTAINEERING****Cr: 7 Wkly hrs: 2 hours Lecture  
10 hours Lab**

Prerequisite: Must be 16 years of age or older. Techniques in rock and snow climbing, field trips to develop proficiency in individual and team skills. Emphasis on safety, confidence, and responsibility in difficult terrain.

**PE-RD 175—BASIC ROCK CLIMBING****Cr: 1 Wkly hrs: 2 hours Lab**

Explore topics related to technical (5th class) rock-climbing. Includes 20 hours of activity, in a structured rock-climbing environment.

**PE-RD 180—NORTHWEST OUTDOOR RECREATION****Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

Explore topics related to camping, travel, orienteering and survival techniques in the outdoors. Also includes an introduction to basic rock climbing techniques.

**PE-RD 195—INDEPENDENT STUDY**

Can be offered as: PE-RD 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PE-RD 199—PRACTICUM**

Can be offered as: PE-RD 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

Practical application in the working world of the basic theories studied in the above program or discipline.

**PE-RD 270—BACKPACKING AND SURVIVAL****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Successful completion of PE-RD 170 with a grade of 2.0 or better within the past 5 years. Participate in activities related to camping, travel and survival techniques in the outdoors. Includes a minimum of 6 hiking/backpacking field trips.

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**PHYSICAL SCIENCE****PH-SC 110—INTRODUCTION TO PHYSICAL GEOGRAPHY****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. The study of the causes of spatial variations of, interrelationships between, and human effects on climate, vegetation, soils, and landforms. (Same as GEOG 110)

**PH-SC 111—PHYSICAL GEOGRAPHY I—  
CLIMATE/VEGETA****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET score. Part one of Intro to Physical Geography. The Earth's atmosphere, hydrosphere and biosphere will be explored with special attention given to relevant environmental problems faced by the world. (Same as GEOG 111)

**PH-SC 112—PHYSICAL GEOGRAPHY II—  
LAND AND SEA****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET score. Intro to the lithosphere. Study of Earth's landforms, soils, and processes that create them. Topics include glacial activity, river systems, coastal dynamics and topographic map interpretation. (Same as GEOG 112)

**PH-SC 195—INDEPENDENT STUDY**

Can be offered as: PH-SC 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

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**PHYSICS****PHYS 110—INTRODUCTION TO PHYSICS**

Can be offered as: PHYS 110 and 110L or PHYS 110 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 099 or 099B with a grade of 2.0 or above, or concurrent enrollment in MATH 099 or 099B with permission of instructor. Metric System, Velocity and Acceleration, Vector's, Newton's Laws, Work and Energy, Momentum, Rotational Motion. Satisfies lab science requirements for A.S. Degree.

**PHYS 110L—LAB-INTRODUCTION TO PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 110.

**PHYS 114—GENERAL PHYSICS**

Can be offered as: PHYS 114 and 114L or PHYS 114 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 119 or PHYS 110 with a grade of 2.0 or above. Mechanics: Fundamental quantities, vectors, one and two dimensional motion, statics, Newton's Laws, gravitation, work and energy, impulse and momentum, and rotational motion. (Offered Fall Quarter only.)

**PHYS 114L—LAB-GENERAL PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 114.

**PHYS 115—GENERAL PHYSICS**

Can be offered as: PHYS 115 and 115L or PHYS 115 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: PHYS 114 with a grade of 2.0 or above. Waves and Sound, Interference Phenomena, Electric Fields and Potential, Direct current and Resistance, Capacitance and Dielectrics, and Magnetic Fields. (Offered Winter Quarter only.)

**PHYS 115L—LAB-GENERAL PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 115.

**PHYS 116—GENERAL PHYSICS**

Can be offered as: PHYS 116 and 116L or PHYS 116 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: PHYS 115 with a grade of 2.0 or above. Simple Harmonic Motion and Elasticity, Fluids, Temperature and Heat, Changes of State, Heat Transfer, Kinetic Theory, Laws of Thermodynamics, Electromagnetic Waves, Reflection, Refraction, Polarization, Lenses and Optical Instruments. (Offered Spring Quarter only.)

**PHYS 116L—LAB-GENERAL PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 116.

**PHYS 195—INDEPENDENT STUDY**

Can be offered as: PHYS 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PHYS 254—ENGINEERING PHYSICS**

Can be offered as: PHYS 254 and 254L or PHYS 254 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: One year of high school physics (or PHYS 110) with a grade of 2.0 or above, and a grade of 2.0 or above in MATH 124 or permission of instructor. Mechanics: Fundamental units, vectors, statics, laws of kinematics, linear and rotational motion, work, energy, momentum, impulse, equilibrium, inertia, and rocket propulsion.

**PHYS 254L—LAB-ENGINEERING PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 254.

**PHYS 255—ENGINEERING PHYSICS**

Can be offered as: PHYS 255 and 255L or PHYS 255 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: A grade of 2.0 or above in both PHYS 254 and MATH 125; concurrent enrollment in MATH 125 is acceptable with a grade of 2.0 or above in MATH 124 or permission of instructor. Elasticity. Electricity and magnetism: Coulomb's Law, Gauss's Law, electric and magnetic fields, capacitors and resistors in circuits, electrical instruments, and Kirchhoff's rules.

**PHYS 255L—LAB-ENGINEERING PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 255.

**PHYS 256—ENGINEERING PHYSICS**

Can be offered as: PHYS 256 and 256L or PHYS 256 only (lab included).

**Cr: 6 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: PHYS 254, 255, and a grade of 2.0 or above in MATH 126 or concurrent enrollment in MATH 126. Heat: Temperature scales, heat measurements, thermal properties of matter. Light: Reflection, refraction, lenses, mirrors, image formation, interference, diffraction, polarization. Brief survey of nuclear physics.

**PHYS 256L—LAB-ENGINEERING PHYSICS****Cr: 0 Wkly hrs: 2 hours Lab**

NS-See PHYS 256.

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**POLITICAL SCIENCE****POL-S 101—INTRODUCTION TO POLITICAL SCIENCE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-An introduction to the principles and problems of the study of politics and modern government. This includes the study of concepts such as freedom, authority, power, and ideology.

**POL-S 103—RESEARCHING/WRITING ON CURRENT ISSUES****Cr: 2 Wkly hrs: 2 hours Lecture**

SS-Prerequisite: ENGL 101 and ENGL 102. Introduction to research tactics for academic writing and the editing strategies of focusing, categorizing, and compositing for students exploring political issues.

**POL-S 115—STATE AND LOCAL GOVERNMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Political and legal foundations of state and local governments, including legislative functions, distribution and execution of power, administrative organization, political parties and voter behavior, and state and local policy-making.

**POL-S 145—POLITICS OF THE MIDDLE EAST****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-A general overview of the history and politics of the Middle East, including the Arab-Israeli conflict, the role of Islamic religion, and the significance of the region to world politics.

**POL-S 150—WAR****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-A comprehensive description of war from the social sciences and humanities: Historical, political, economic, psycho-social aspects and topics from philosophy, literature, and film are used. (Same as HIST 150/HUMAN 150)

**POL-S 175—POLITICS AND LITERATURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-An examination of the central issues and concepts of politics through the perspective provided by great literature. Included will be the questions of authority, responsibility, freedom, and power. (Same as HUMAN 175)

**POL-S 185—INTRO—HISTORY OF POLITICAL THOUGHT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-An introduction to the major thinkers and philosophies that have shaped the Western political tradition. This includes philosophers from Socrates to Sartre, and involves an understanding of both philosophy and politics. (Same as PHIL 185)

**POL-S 195—INDEPENDENT STUDY**

Can be offered as: POL-S 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**POL-S 199—PRACTICUM****Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**POL-S 210—AMERICAN GOVERNMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Development, structure and role of U.S. Government, with attention to democratic traditions. Constitutionalism, federalism, civil liberties, political parties, and propaganda.

**POL-S 240—INTERNATIONAL RELATIONS****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Rise of State and Modern State System, with emphasis on Nationalism, sovereignty, national power, imperialism, economic and military rivalry, and the quest for security and peace.

**POL-S 251—INTRODUCTION TO PUBLIC LAW****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Sophomore standing or permission of instructor. Constitutionalism, the relationship of the individual to the State and recent U.S. Supreme Court decisions affecting the fundamental rights of individuals and enforcement of law.

**POL-S 252—THE CONSTITUTION/A DELICATE BALANCE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Course treats current constitutional issues including national security, freedom of the press, affirmative action, foreign policy, rights of the unborn and terminally ill, insanity defense, and illegal aliens. (Same as HIST 252)

**PRACTICAL NURSING****PNURS 102—PRACTICAL NURSING PHYSICAL ASSESSMENT****Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. Describes basic structures and functions of body systems and identifies appropriate assessment techniques (inspection, palpation and auscultation) for each system.

**PNURS 104—PRACTICAL NURSING LAB I****Cr: 1 Wkly hrs: 2 hours Lab**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. Introductory lab class on direct care skills, asepsis, universal precautions, vital signs, body mechanics, restraints, postmortem care, safety, and charting in the medical record.

**PNURS 106—PRACTICAL NURSING LAB II****Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Completion of PNURS 102, 104, 112, 114, and 122 with a minimum grade of 2.3 in all courses; completion of PNURS 110 with a minimum grade of 2.0; concurrent enrollment in PNURS 108, 116, 118, 124, and 126. Lab class emphasizing psychomotor skill development for the care of the med-surg client (oxygen, medication administration, suctioning, wound care, and catheterization).

**PNURS 108—PRACTICAL NURSING CLINICAL PHARM****Cr: 1 Wkly hrs: 1 hour Lecture**

An introduction to current practices in drug therapy and the pharmacokinetics that influence drug actions.

**PNURS 110—PRACTICAL NURSING MEDICAL TERMINOLOGY****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. An introduction to word roots, combining forms, suffixes, prefixes, spelling and pronunciation guidelines using a body systems approach.

**PNURS 112—PRACTICAL NURSING PERS/PROF ROLE DEV****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. Introduction to the personal and professional role development of the practical nursing student regarding the Nurse Practice Act, law, ethics, history, change theory, and self assessment.

**PNURS 114—PRACTICAL NURSING FUNDAMENTALS I****Cr: 4 Wkly hrs: 4 hours Lecture**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. Intro to health-illness model: Basic human needs, health promotion, communication, patient relationships, nursing process, universal precautions, elderly growth and development, loss and grief concepts.

**PNURS 116—PRACTICAL NURSING FUNDAMENTALS II****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Admission to the Practical Nursing Program; completion of PNURS 102, PNURS 104, PNURS 112, PNURS 114, PNURS 122 with a minimum grade of 2.3; completion of PNURS 110 with a minimum grade of 2.0; concurrent enrollment in PNURS 108, PNURS 118, PNURS 124 and PNURS 126. Introduction to common medical, surgical, and mental health conditions using the nursing process.

**PNURS 118—PRACTICAL NURSING, NUTRITION****Cr: 3 Wkly hrs: 3 hours Lecture**

Covers the nurses' role in wellness and nutrition education, nutrients and client special dietary needs throughout the lifespan and dietary needs related to different medical-surgical conditions.

**PNURS 120—PRACTICAL NURSING GROWTH/DEVELOPMENT****Cr: 3 Wkly hrs: 3 hours Lecture**

Emphasizes growth and development of the individual across the lifespan. Utilizes a holistic, nursing process approach to evaluate family influences and health promotion/prevention.

**PNURS 122—PRACTICAL NURSING LONG TERM CARE CLIN****Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: Admission to the Practical Nursing Program and/or permission of instructor. Direct care experience using practice/application of physical assessment, communication, hygiene and safety using correct medical terminology/documentation with long-term care residents.

**PNURS 124—PRACTICAL NURSING SURG/MH CLINICAL****Cr: 5 Wkly hrs: 10 hours Lab**

Prerequisite: Completion of PNURS 102, PNURS 104, PNURS 112, PNURS 114, PNURS 122 with a minimum grade of 2.3 in all courses; completion of PNURS 110 with a minimum grade of 2.0; concurrent enrollment in PNURS 106, PNURS 108, PNURS 116, PNURS 118 and PNURS 126. Direct care experience emphasizing practice and application of client care concepts related to common medical, surgical and non-psychotic mental health problems.

**PNURS 126—PRACTICAL NURSING DOSAGE CALCULATIONS****Cr: 2 Wkly hrs: 2 hours Lecture**

Introduction to the dosage calculations used in medication administration in the clinical setting.

**PNURS 195—INDEPENDENT STUDY**

Can be offered as: PNURS 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PNURS 202—PRACTICAL NURSING CLIN CARE MGT****Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Completion of PNURS 102, 104, 106, 108, 112, 114, 116, 122, 124, 204, and 208 with a minimum grade of 2.3 in all courses; completion of PNURS 110, 118, and 120 with a minimum grade of 2.0; completion of PNURS 126 with a minimum grade of 3.7; concurrent enrollment in PNURS 206 and 208. Discussing the Practical Nurse's role in management and supervision, team building, client advocacy, trends in health care, resume writing and preparation to enter the workforce.

**PNURS 204—PRACTICAL NURSING FUNDAMENTALS III****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: Admission to the Practical Nursing Program and successful completion of PNURS 102, 104, 106, 108, 112, 114, 116, 122 and 124 with a minimum grade of 2.3; completion of PNURS 110 and 118 with minimum grade of 2.0; completion of PNURS 126 with minimum grade of 3.7; concurrent enrollment or completion of PNURS 120 and PNURS 208. Introduction to childbearing, pediatrics and complex medical-surgical conditions using a nursing process framework. Includes critical thinking, stress/adaptation and ethical concepts.

**PNURS 206—PRACTICAL NURSING FUNDAMENTALS IV****Cr: 3 Wkly hrs: 3 hours Lecture**

Prerequisite: Successful completion of PNURS 102, 104, 106, 108, 112, 116, 118, 122, 124, and 204 with a minimum grade of 2.3; completion of PNURS 126 with a minimum grade of 3.7; completion of PNURS 110, 118 and 120 with minimum grade of 2.0; concurrent enrollment in PNURS 202 and 210. Continuation of complex medical/surgical and mental health conditions using a nursing process framework. Includes critical thinking, stress/adaptation, pharmacology and teaching concepts.

**PNURS 208—PRACTICAL NURSING, PED/OB/MS CLINICAL****Cr: 6 Wkly hrs: 12 hours Lab**

Prerequisite: Completion of PNURS 102, 104, 106, 108, 112, 114, 116, 122, 124 with a minimum grade of 2.3 in all courses; completion of PNURS 110 and 118 with a minimum grade of 2.0; completion of PNURS 126 with a minimum grade of 3.7; concurrent enrollment in PNURS 120 and 204. Direct patient care experience emphasizing practice and application of theory/skills related to clients in Obstetric, Pediatric and Medical-Surgical settings.

**PNURS 210—PRACTICAL NURSING CLIN MENTORSHIP****Cr: 8 Wkly hrs: 16 hours Lab**

Prerequisite: Completion of PNURS 102, 104, 106, 108, 112, 114, 116, 122, 124, 204, and 208 with a minimum grade of 2.3 in all courses; completion of PNURS 110, 118 and 120 with a minimum grade of 2.0; completion of PNURS 126 with a minimum grade of 3.7; concurrent enrollment in PNURS 202 and 206. Students will gain additional experience in direct patient care and management responsibilities using a mentorship with a Licensed Practical Nurse.

**PSYCHOLOGY****PSYCH 101—GENERAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Survey of basic topics in psychology including methods, the biological basis of behavior, sensation, perceptions, learning, memory, motivation, emotion, and clinical psychology.

**PSYCH 102—PSYCHOLOGY OF ADJUSTMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Systematic presentation of scientific psychological principles and procedures for the resolution of human problems and relationships.

**PSYCH 122—PARENT-CHILD RELATIONSHIP****Cr: 3 Wkly hrs: 3 hours Lecture**

SS-The students learn to apply basic human behavioral concepts to adult/child relationships. They learn effective skills to deal with problems encountered, with particular emphasis on parent/child relationships. (Same as PARED 122)

**PSYCH 140—CAREER PLANNING/LIFE EXPLORATION****Cr: 1 Wkly hrs: 1 hour Lecture**

This course is open to all students, vocational and transfer. Identify interests and values in relationship to the world of work. Establish or change career goals and learn skills for ongoing career and life planning. Determine the effects of outside variables to see the impact on career choices.

**PSYCH 163—PSYCHOLOGY OF SELF-ESTEEM****Cr: 1 Wkly hrs: 1 hour Lecture**

SS-Feelings of self-worth and feelings of self-competence will be discussed, along with developmental forces that contribute to each.

**PSYCH 164—STRESS MANAGEMENT****Cr: 1 Wkly hrs: 1 hour Lecture**

SS-Increase awareness of physical, emotional, and behavioral symptoms of stress. Learn methods to effectively manage and prevent a state of distress.

**PSYCH 195—INDEPENDENT STUDY**

Can be offered as: PSYCH 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**PSYCH 199—PRACTICUM**

Can be offered as: PSYCH 199/299.

**Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**PSYCH 205—INTRODUCTION TO PERSONALITY THEORY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: None, PSYCH 101 is suggested. A survey of personality theory including major schools of thought in psychology such as: Psychodynamic, learning, dispositional, existential, and cognitive.

**PSYCH 221—SOCIAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: PSYCH 101, ENGL 101; SOCIO 101 also recommended. Social Psychology focuses on the interaction between individuals and their social context. Recent research is reviewed. Writing emphasis. (Same as SOCIO 221)

**PSYCH 224—LIFESPAN DEVELOPMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: PSYCH 101. Introduces the development of different stages in physical, cognitive, personality, and socio-emotional changes over the life span.

**PSYCH 240—ABNORMAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: PSYCH 101 or permission of instructor. A survey of psychopathology, specifically a study of abnormal human behavior, its description and explanation from several theoretical perspectives, and an overview of therapies to modify abnormal behavior.

**PSYCH 250—INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: None, PSYCH 101 is desirable. Study of organizational theory and practice; motivation and job satisfaction; leadership and supervision; personnel selection, placement, and evaluation; coaching; mentoring; and group behavior.

**PSYCH 260—INTRODUCTION TO CLINICAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Either PSYCH 101 or SOCIO 101 or instructor approval. An introduction to professional issues in clinical and counseling psychology and major therapeutic techniques used in the professions. (Same as SOCIO 260)

**RESIDENTIAL CONSTRUCTION AND REMODELING****RSCON 099—TOOLS AND SAFETY****Cr: 1 Wkly hrs: 2 hour Lab**

This course introduces students to basic carpentry tools and their safe operation. Students will practice using personal protective equipment and creating a safe shop environment. (Pass/No Credit)

**RSCON 101—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: Permission of instructor required. Introduction to tools, terminology, trade math, basic drafting skills, identifying projections associated with building blueprints, on-site preparations, i.e., offsets, batter boards, excavation stakes and preparation for a foundation.

**RSCON 102—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: RSCON 101. Building a concrete foundation using techniques learned in the first quarter. Laying a foundation drainage system, damp-proofing walls, and providing for a utility entrance. Erecting exterior and interior walls, framing and sheathing floor and roof systems.

**RSCON 103—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: RSCON 102. Completing the finished frame for all attendant structural components: Setting windows and doors in exterior walls, stair layout and construction, draft-proofing and insulation, decks and walkways.

**RSCON 104—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: RSCON 103. Hanging gypsum wallboard, taping and texturing, installing the floor finish and coverings, hanging interior doors, installing shelving and cabinets.

**RSCON 105—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: RSCON 104. Elements of design, blueprint reading, materials estimating, load and spans calculation, using timber industry slide rule calculators.

**RSCON 106—RESIDENTIAL CONSTRUCTION****Cr: 15 Wkly hrs: 5 hours Lecture  
20 hours Lab**

Prerequisite: RSCON 105. Construction management: Integrating the work schedule of carpentry students and subcontractors. Acting as liaison between owner and workforce.

**RSCON 120—ARCHITECTURAL DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: ENGR 101 and TEC-D 200 or permission of instructor. Introduction to basic drawing equipment and techniques and their application to the production of building plans, elevations, and sections suitable for residential construction. (Same as TEC-D 127)

**RSCON 121—ADVANCED ARCHITECTURAL DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: RSCON 120 or permission of instructor. Builds upon and expands RSCON 120. Includes multi-level and custom residential designs, building codes, structural calculations, and architectural rendering. (Same as TEC-D 128).

**RSCON 135—APPLIED CABINETRY I****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Entry-level training and development of skills in cabinetmaking, including shop and personal safety, tool and machine selection and use, wood selection, elementary joinery and construction, and finishing.

**RSCON 136—APPLIED CABINETRY II****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Intermediate level training and further development of skills in cabinet making including a review of shop and personal safety, tool and machine selection and use, wood selection, more complex joinery, construction, and finishing.

**RSCON 137—APPLIED CABINETRY III****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

The student will use the acquired knowledge, skills, and confidence gained in RSCON 135 and 136 to accomplish a major project either of their own design or from plan.

**RSCON 145—APPLIED PROBLEM SOLVING****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score and concurrent enrollment in or completion of ATA requirements in AUT-T or RSCON or TEC-D or WELD vocational programs. Uses a lecture/discovery format to augment the math instruction intrinsic in Automotive, Residential Construction, Technical Design or Welding curricula. Uses math concepts and models to enhance problem-solving skills required in the workplace. (Same as AUT-T 145, TEC-D 145 and WELD 145)

**RSCON 195—INDEPENDENT STUDY**

Can be offered as: RSCON 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**SCIENCE****SCI 100—INTRODUCTION TO SCIENCE****Cr: 5 Wkly hrs: 5 hours Lecture**

NS-Prerequisite: MATH 094 and ENGL 099 or equivalent as determined by ASSET scores. Overview of sciences taught at Olympic College. Basic concepts of chemistry, biology, physics, astronomy, geology, and geography will be covered. Intended for students with little or no science background.

**SOCIOLOGY****SOCIO 101—INTRODUCTION TO SOCIOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Introduces the subject matter, theories, and methods of sociology. Focuses on the interaction between the individual and the social milieu.

**SOCIO 102—SOCIAL PROBLEMS****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-A survey of sociological theories, descriptions, and methods of researching and analyzing the current major social problems in America.

**SOCIO 106—JUVENILE DELINQUENCY AND JUSTICE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Either A-JUS 101 or A-JUS 103. The causation, apprehension, commitment, and treatment of juvenile delinquents including methods of caring for delinquents using basic sociological theories. (Same as A-JUS 106)

**SOCIO 125—AGING****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-An introductory class on aging, including physical, social, psychological, and emotional development. Students analyze myths and realities and identify challenges of aging, with possible problems and solutions.

**SOCIO 135—THE FAMILY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-This course examines structural and personal change factors in families in Western and non-Western countries.

**SOCIO 151—BLENDED FAMILY****Cr: 2 Wkly hrs: 2 hours Lecture**

SS-Students focus on the increasing prevalence of the blended family: The family composed of parents and children from previous families. Strengths, challenges and opportunities are identified. (Same as PARED 151)

**SOCIO 195—INDEPENDENT STUDY**

Can be offered as: SOCIO 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**SOCIO 199—PRACTICUM****Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**SOCIO 220—WOMEN IN AMERICAN CULTURE****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-A survey of the role and status of American women from Colonial Times to the present, with emphasis on the arts. (Same as HUMAN 220)

**SOCIO 221—SOCIAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: PSYCH 101, ENGL 101; SOCIO 101 also recommended. Social Psychology focuses on the interaction between individuals and their social context. Recent research is reviewed. Writing emphasis. (Same as PSYCH 221)

**SOCIO 260—INTRODUCTION TO CLINICAL PSYCHOLOGY****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Prerequisite: Either PSYCH 101 or SOCIO 101 or instructor approval. An introduction to professional issues in clinical and counseling psychology and major therapeutic techniques used in the professions. (Same as PSYCH 260)

**SOCIO 271—DEVIANT BEHAVIOR****Cr: 5 Wkly hrs: 5 hours Lecture**

SS-Examine the concepts of deviance, deviant behavior, and social control; theories of deviance and deviant behavior; types of deviant behavior; and societal responses.

**SPEECH****SPCH 096A—SELECTED TOPICS/SPEECH COMMUNICATION**

Can be offered as: SPCH 096A/096B/096C.

**Cr: 2 Wkly hrs: 2 hours Lecture**

This course focuses on speech communication not ordinarily covered in the speech curriculum.

**SPCH 097A—SELECTED TOPICS/SPEECH COMMUNICATION**

Can be offered as: SPCH 097A/097B/097C.

**Cr: 3 Wkly hrs: 3 hours Lecture**

This course focuses on speech communication not ordinarily covered in the speech curriculum.

**SPCH 145—AMERICAN SIGN LANGUAGE I****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An introductory course focusing on expressive and receptive signing in the context of everyday situations. In addition to basic vocabulary and grammar, the culture and history of the deaf and culturally appropriate behaviors are introduced. (Same as FLASL 145)

**SPCH 146—AMERICAN SIGN LANGUAGE II****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: Completion of SPCH 145 with a grade of 2.0 or better or permission of instructor. Continued study of ASL focused on expanding vocabulary and grammar to intermediate level with an emphasis on expressive and receptive skills. Further discussion of the deaf culture is also included. (Same as FLASL 146)

**SPCH 147—AMERICAN SIGN LANGUAGE III****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: Completion of SPCH 146 with a grade of 2.0 or better or permission of instructor. Continued study of ASL focused on expanding vocabulary and grammar with an emphasis on expressive and receptive skills. Further discussion of deaf culture. (Same as FLASL 147)

**SPCH 148—AMERICAN SIGN LANGUAGE IV****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Prerequisite: Completion of FLASL 147/SPCH 147 with a grade of 2.0 or better or permission of instructor. The focus of this course is to develop ASL fluency with the emphasis on expressive skills. The course includes intensive vocabulary building, ASL idioms, slang and grammar. (Same as FLASL 148)

**SPCH 151A—FUNDAMENTALS OF SPEECH****Cr: 3 Wkly hrs: 3 hours Lecture**

H-Principles and techniques of preparing and delivering technically related materials. An emphasis is placed on adapting presentation to specific types of audiences.

**SPCH 151B—FUNDAMENTALS OF SPEECH****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Principles and techniques of preparing and delivering effective public speeches to inform, analyze, and persuade.

**SPCH 152—INTERPERSONAL COMMUNICATION****Cr: 5 Wkly hrs: 5 hours Lecture**

H-Communication theory as applied to interpersonal communication. Includes verbal and non-verbal language, listening, perception, and self-concept as it applies to communication, emotions, and conflict resolution.

**SPCH 153—INTERCULTURAL COMMUNICATION****Cr: 5 Wkly hrs: 5 hours Lecture**

H-An introduction to intercultural communication. Topics include communications theory, cultural effects on communication, achievement of communications flexibility. Ethnocentrism and prejudice will be addressed.

**SPCH 195—INDEPENDENT STUDY**

Can be offered as: SPCH 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**SPCH 199—PRACTICUM****Cr: 1-5 Wkly hrs: 10 hours Lab**

A practical application in the working world of the basic theories studied in the above program or discipline.

**SPCH 242—COMMUNICATION IN ORGANIZATIONS****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The study of communication in career settings. Material to be covered includes verbal and non-verbal language, listening, interviewing, conflict resolution, and oral presentations.

**SPCH 243—LEADERSHIP AND GROUP DEVELOPMENT****Cr: 5 Wkly hrs: 5 hours Lecture**

H-The theory and practice of basic principles and techniques of small group communication, leadership, problem-solving, and decision-making with emphasis on career and community applications.

**TECHNICAL DESIGN****TEC-D 116—COMPUTATIONAL TECHNIQUES/TECHNICIANS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Use of hand calculators and electronic spreadsheets in the solution of technical calculations. Emphasizes use of calculation aids for algebraic, trig, power, complex, interactive, and repetitive calculations.

**TEC-D 121—PLANE SURVEYING****Cr: 4 Wkly hrs: 1 hour Lecture  
6 hours Lab**

Prerequisite: ENGR 101, TEC-D 116 or permission of instructor. Introduction to plane surveying. Use of instruments, computations, error corrections, and mapping. Emphasis on public land surveys, physical measurements, and related problems.

**TEC-D 127—ARCHITECTURAL DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: ENGR 101 and TEC-D 200 or permission of instructor. Introduction to basic drawing equipment and techniques and their application to the production of building plans, elevations, and sections suitable for residential construction. (Same as RSCON 120)

**TEC-D 128—ADVANCED ARCHITECTURAL DRAWING****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: TEC-D 127 (RSCON 120) or permission of instructor. Builds upon and expands TEC-D 127. Includes multi-level and custom residential designs, building codes, structural calculations and architectural rendering. (Same as RSCON 121)

**TEC-D 130—MANUFACTURED MATERIALS AND PROCESSES****Cr: 3 Wkly hrs: 3 hours Lecture**

Familiarization with the applications of materials commonly used in construction and processes in manufacturing.

**TEC-D 136—INTRODUCTION TO GIS-1****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: Familiarity with Windows environment advisable. Session 1 in the introduction to Geographical Information Systems (GIS) for the PC. An overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical formats.

**TEC-D 137—INTRODUCTION TO GIS-2****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: TEC-D 136. Session 2 in the Introduction to Geographical Information Systems (GIS) for the PC. An overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical formats.

**TEC-D 138—INTRODUCTION TO GIS-3****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: TEC-D 137. Session 3 in the Introduction to Geographical Information Systems (GIS) for the PC. An overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical formats.

**TEC-D 139—INTRODUCTION TO GIS-4****Cr: 1 Wkly hrs: 1 hour Lecture**

Prerequisite: TEC-D 138. Session 4 in the Introduction to Geographical Information Systems (GIS) for the PC. The conclusion to an overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical format.

**TEC-D 140—INTRODUCTION TO MICROSTATION****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: Working knowledge of AutoCAD software or equivalent. Introduction to Microstation Computer-Aided Design software to generate engineering drawings. Presentation of entry-level draw, edit, display, and plotting procedures. (Formerly ENGR 140)

**TEC-D 141—INTERMEDIATE MICROSTATION****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: TEC-D 140. Emphasis on increasing Computer-Aided Design (CAD) productivity with Microstation software. Presentation of selected operations and commands. Completion of production engineering drawings.

**TEC-D 145—APPLIED PROBLEM SOLVING****Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score and concurrent enrollment in or completion of ATA requirements in AUT-T or RSCON or TEC-D or WELD vocational programs. Uses a lecture/discovery format to augment the math instruction intrinsic in Automotive, Residential Construction, Technical Design or Welding curricula. Uses math concepts and models to enhance problem-solving skills required in the workplace. (Same as AUT-T 145, RSCON 145 and WELD 145)

**TEC-D 148—DESKTOP PUBLISHING WITH PAGEMAKER****Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab**

A practical, hands-on approach to desktop publishing using PageMaker software. An introduction to the principles of desktop publishing to the functionality of PageMaker, from creating masterpages and templates to implementing basic design concepts to create effective publications. (Same as CMPTR 148)

**TEC-D 150—INTRODUCTION TO GIS****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

An overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical formats. (Equivalent to material offered in TEC-D 136, 137, 138, and 139 courses.)

**TEC-D 151—INTERMEDIATE GIS WITH ARCVIEW****Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab**

Prerequisite: TEC-D 136, 137, 138, and 139, or TEC-D 150. Intermediate GIS with ArcView expands upon the concepts of GIS introduced in the Introduction to GIS (TEC-D 150 or the TEC-D 136, 137, 138 and 139 series). Through project assignments, students can expect to gain a working knowledge of efficient ways to apply the software to different applications.

**TEC-D 170—INTRODUCTION TO IMAGINEER TECHNICAL****Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab**

Prerequisite: TEC-D 200. An introduction to Bentley's Imagineer Technical software and hands-on applications.

**TEC-D 175—INTRODUCTION TO SOLID EDGE****Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

Prerequisite: TEC-D 200. An introduction to the Solid Edge Computer Aided-Design software and creative technical drawings using solid edge.

**TEC-D 195—INDEPENDENT STUDY**

Can be offered as: TEC-D 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**TEC-D 200—INTRODUCTION TO COMPUTER-AIDED DESIGN**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Introduction to use of computers to generate mechanical drawings. Presentation of the concepts needed to use computer and peripheral equipment to prepare, edit, store, retrieve and plot engineering drawings. Some lab hours arranged.

**TEC-D 201—ADVANCED MECHANICAL DRAWING**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: ENGR 102 and TEC-D 200. Drafting problems in pictorial representation, isometric assembly drawings, complex detail and assembly drawings using CAD and board techniques. (Formerly ENGR 201)

**TEC-D 202—INDUSTRIAL DRAFTING**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: ENGR 103, TEC-D 200, and TEC-D 201. Advanced study in descriptive geometry and industrial drafting practices using CAD and board techniques, including structural and piping drawing. (Formerly ENGR 202)

**TEC-D 203—ARCHITECTURAL AUTOCAD**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 and TEC-D 127 or permission of instructor. Introduction to use of computers to generate architectural drawings. Presentation of the concepts needed to use computer and peripheral equipment to prepare, edit, store, retrieve and print architectural drawings.

**TEC-D 204—INTRODUCTION TO DESIGN CAD**Cr: 2 Wkly hrs: 1 hour Lecture  
2 hours Lab

Prerequisite: TEC-D 200. Introduction to use of Design CAD software to generate mechanical drawings. Presentation of the concepts needed to use computer and peripheral equipment to prepare, edit, store, retrieve and plot engineering drawings using Design CAD software. Some lab hours arranged.

**TEC-D 205—PROJECT PLANNING—MICROSOFT PROJECT**Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

A practical, hands-on approach to project planning using Microsoft Project software. An introduction to the principles of project planning to the functionality of MS Project, from understanding project scheduling to customizing the project environment.

**TEC-D 207—INTRODUCTION TO CAD-A**

Cr: 1 Wkly hrs: 1 hour Lecture

Prerequisite: Basic computer experience and some familiarity with Windows 95, 98 or NT. First of four sequential classes as an alternative to TEC-D 200. Successful completion of all four classes fills the TEC-D 200 requirements.

**TEC-D 208—INTRODUCTION TO CAD-B**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: TEC-D 207. Second of four sequential classes as an alternative to TEC-D 200 (Introduction to CAD). Successful completion of all four classes fulfills the TEC-D 200 requirements.

**TEC-D 209—INTRODUCTION TO CAD-C**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: TEC-D 207 and 208. Third of four sequential classes as an alternative to TEC-D 200 (Intro to CAD). Successful completion of all four classes fulfills the TEC-D 200 requirements.

**TEC-D 210—INTRODUCTION TO CAD-D**

Cr: 1 Wkly hrs: 2 hours Lab

Prerequisite: TEC-D 209. Last of four sequential classes as an alternative to TEC-D 200 (Intro to CAD). Successful completion fulfills the TEC-D 200 requirement for certificate or ATA degree.

**TEC-D 211—GEOMETRIC DIMENSIONING & TOLERANCING**

Cr: 4 Wkly hrs: 4 hours Lecture

Prerequisite: ENGR 101 or permission of instructor. The application of Geometric Dimensioning and Tolerancing techniques as per national and international standards (e.g. ANSI Y14.5 M/ISO/TC10/SC5).

**TEC-D 212—FACADE**

Cr: 1 Wkly hrs: 1 hour Lecture

Prerequisite: TEC-D 200 or permission of instructor. An introduction to the development of architectural presentations of buildings using the Facade software.

**TEC-D 213—PRESENTATION RENDERING**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: Knowledge of AutoCAD. An introduction to Presentation Rendering animation using AutoCAD Rendering Capabilities and other software.

**TEC-D 214—INTRODUCTION TO IRONCAD SOFTWARE**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200. An introduction to the IronCAD modeling software to create and edit accurate free-form 3D models. Study also includes rendering, manipulating and customizing the modeling environment, and exporting and importing models for use with AutoCAD, and other CAD programs.

**TEC-D 215—INTERMEDIATE COMPUTER-AIDED DESIGN**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200. Emphasis on increasing Computer Aided Design (CAD) productivity and construction of custom system setup, macros, and menus for 2D and 3D design applications including Intro to AutoLISP.

**TEC-D 216—INTERMEDIATE AUTOCAD FOR ARCHITECTS**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 203. Emphasis on increasing Computer Aided Design (CAD) productivity and construction of custom system setup, macros, and menus for 2D and 3D design applications including Intro to AutoLISP.

**TEC-D 217—COMPUTER AIDED DESIGN II**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or experienced user or permission of instructor. Beginning CAD drafter to increase productivity. Class includes: Profiles, templates, objects of increasing difficulty including blocks and attributes, paper space/model space plotting, multiview/Xrefplotting, plotting to scale, scripts and slides, importing documents, creation of shape files, new line types files, net hatch files and AutoCAD Design Center File Management.

**TEC-D 218—AUTOCAD MECHANICAL DESKTOP**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200. A practical hands-on approach to AutoCAD 3D Mechanical Desktop Software. Mechanical Desktop provides the power of 3D parametric design to create and edit profile sketches, parts, surface models, shells, assemblies, and free-form sculpted surfaces.

**TEC-D 221—2D PRODUCTION DRAWING USING AUTOCAD**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or permission of instructor. An intensive course using AutoCAD to create and/or modify large 2D production drawings. Large projects will be emphasized. This course will be similar to a shop employment experience. The student will work on "real life" projects received from distant employers when possible. Course will include Xref, information transfer via internet, and memory conservation techniques.

**TEC-D 222—AUTOCAD 3D**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or permission of instructor. This course is for those wishing to learn to use the three dimensional capabilities of AutoCAD software. Emphasis will be placed on AutoCAD's 3D commands to produce 3D drawings.

**TEC-D 223—3D CAD-RHINO SOFTWARE**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200. An introduction to the Rhinoceros 3D NURBS modeling software to create and edit accurate free-form 3D models. Study also includes rendering, manipulating and customizing the modeling environment and exporting and importing models for use with AutoCAD and other CAD programs.

**TEC-D 225—ADVANCED COMPUTER AIDED DESIGN**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 215. Advanced applications of 3D modeling using the AutoCAD software, OLE, AutoCAD and the internet, programming with DCL, writing basic AutoLISP routines, and an introduction to the AutoCAD SQL Extension (ASE).

**TEC-D 226—MECH DESKTOP-3-D PARAMETRIC DESIGN**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

The AutoCAD Mechanical Desktop is a 3D parametric solid modeler with both part and assembly modeling abilities. With parametrics, you define your model according to size, shape, and positional relationships of its parts.

**TEC-D 228—INTRODUCTION TO FACADE AND****ACCURENDER**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or permission of instructor. Introduction to development of architectural presentations of structures using Facade software and to rendering animation, virtual reality, and lighting analysis in AutoCAD using Accurender.

**TEC-D 230—PROGRAMMING FOR AUTOCAD**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 217 or permission of instructor. Programming for AutoCAD will provide you with the knowledge to develop programs that optimize your productivity. You do not have to be an experienced programmer to take this class. This class will look at both Autolisp and Visual Basic as well as other ways to maximize your productivity. Programs will be written, compiled, and run.

**TEC-D 235—PARAMETRIC MODEL W/AUTODESK INVENTOR**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or permission of instructor. Inventor is Autodesk's newest parametric solid modeler. You can create a 3D solid model, and the program then generates the 2D drafting views. Product assemblies are also possible.

**TEC-D 249—PRO/ENGINEER SURVEY**

Cr: 3 Wkly hrs: 3 hours Lecture

Prerequisite: TEC-D 200 or permission of instructor. An overview of the Pro/Engineer software and practice with its solid modeling capabilities. (Does not replace TEC-D 250 requirement for certificate or ATA degree.)

**TEC-D 250—INTRODUCTION TO PRO/ENGINEER**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 215 or permission of instructor. An introductory course in the use of Pro/Engineer computer-aided design software, which includes an introduction to constraint based solids modeling.

**TEC-D 251—INTERMEDIATE PRO/ENGINEER**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 250. Use Pro/Engineer software to create advanced form solids, set-up configuration files, and produce detail and assembly drawings.

**TEC-D 255—AUTOCAD CUSTOMIZATION**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200 or permission of instructor. A practical, hands-on approach to customizing the AutoCAD software environment. This course is intended for the experienced user who wishes to learn to customize the AutoCAD software interface. Topics will include: profiles, shape files, linetypes, menu structure, dialog boxes, icons, toolbars, system setup/macros, Hot Keys, and introduction to programming language.

**TEC-D 258—PRESENTATION RENDERING**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: Knowledge of AutoCAD and permission of instructor. An introduction to Architectural, Mechanical, and product presentation using Rendering softwares. This course will include AutoCAD and Accrender techniques.

**TEC-D 260—STRUCTURAL DRAFTING USING SDS2**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200. An introduction to structural detail drafting using SDS/2 software.

**TEC-D 264—AUTOCAD CERTIFICATION EXAM PREP**

Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab

Prerequisite: TEC-D 200, 215, 225 or permission of instructor. Prepares student to become Autodesk certified in AutoCAD software at Level I and/or Level II. The examination itself is not part of this course. The exam requires special registration with Autodesk and separate cost directly with Autodesk, Inc. and is given by a certified examiner.

**VIDEO AND THEATRE ARTS****VTA 101—THEATRE APPRECIATION**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Overview of basic elements of theatre arts: The nature of theatre, its role in society, activities of playwrights, directors, designers and performers. Required attendance at two outside performances. (Pass/No Credit)

**VTA 110—VIDEO PRODUCTION FOUNDATIONS**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Introduction to video production. Includes history of TV, video technologies, equipment operation, audio/video image composition, recording, lighting, production planning, visual storytelling and video editing.

**VTA 120—THEATRE PRODUCTION WORKSHOP**

Can be offered as: VTA 120/121/122 and 220/221/222.

Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

H/SP-Lecture/discussion on all aspects of theatre productions currently being prepared.

**VTA 140—VIDEO PRODUCTION WORKSHOP**

Can be offered as: VTA 140/141/142 and 240/241/242.

Cr: 3 Wkly hrs: 1 hour Lecture  
4 hours Lab

H/SP-Prerequisite: Previous or concurrent enrollment in VTA 110; permission of instructor. Lecture/discussion and individualized activities relating to video projects, covering all phases of production and all positions that personnel occupy in various video environments.

**VTA 195—INDEPENDENT STUDY**

Can be offered as: VTA 195/295.

Cr: 1-5 Wkly hrs: 15 hours Clinic

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**VTA 199—PRACTICUM**

Can be offered as: VTA 199/299.

Cr: 1-5 Wkly hrs: 10 hours Lab

A practical application in the working world of the basic theories studied in the above program or discipline. (Formerly DRAMA 199)

**VTA 206—HISTORY OF AMERICAN MUSICALS**

Cr: 5 Wkly hrs: 5 hours Lecture

H-An historical survey of musical theatre in America with an emphasis upon the analysis of specific works as both performative art and cultural artifact. (Formerly DRAMA 260) (Same as HUMAN 206)

**VTA 210—STAGECRAFT**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

H-An introduction to the basics of scenic planning, drafting, construction, rigging and shifting techniques.

**VTA 211—COSTUME FUNDAMENTALS**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

H-Introduction to the theory and practice of costume and makeup design including script analysis, design process, and application of construction techniques.

**VTA 212—LIGHTING DESIGN I**

Cr: 4 Wkly hrs: 3 hours Lecture  
2 hours Lab

H-Introduction to the theory and practice of lighting design including planning, handling and rigging lighting instruments, color theory and special effects.

**VTA 230—VIDEO PRODUCTIONS FOR WEBCASTING**

Cr: 3 Wkly hrs: 2 hours Lecture  
2 hours Lab

H/SP-Lecture/discussion and individualized activities relating to web streamed video projects and games.

**VTA 251—BEGINNING ACTING**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Introduction to theory and practice of acting with emphasis on the development of fundamental processes of imagination, concentration, observation and recall. (Formerly DRAMA 251)

**VTA 252—INTERMEDIATE ACTING**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Prerequisite: VTA 251 or permission of instructor. In-depth study of theory and practice of acting. Continued development of fundamentals. Techniques of physical and psychological integration, communication with a partner and script analysis. (Formerly DRAMA 252)

**VTA 253—ADVANCED ACTING**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Prerequisite: VTA 251 and 252 or permission of instructor. Advanced study of theory and practice with emphasis on communication with partner. Extensive analysis of plays and detailed preparation of scenes from historical and contemporary theatre. (Formerly DRAMA 253)

**VTA 255—STAGE MOVEMENT**

Cr: 3 Wkly hrs: 3 hours Lecture

H/SP-Physical exploration of movement used in theatre and film including nonverbal communication, stage combat, mime and period deportment. (Formerly DRAMA 210)

**VTA 256—THEATRE SPEECH**

Cr: 3 Wkly hrs: 3 hours Lecture

H-Analyze and apply techniques of vocal production and articulation including mastery of International Phonetic Alphabet in translation of stage texts or song lyrics. (Formerly Drama 155)

**VTA 270—CREATIVE DRAMATICS FOR EDUCATORS**

Cr: 5 Wkly hrs: 5 hours Lecture

H-Explore and experience the creative dramatics process while developing classroom applications.

**WELDING****WELD 100—OXYACETYLENE WELDING**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: Completion of or concurrent enrollment in WELD 106 or by permission of instructor. Students develop skills required for oxyacetylene welding and brazing in the flat, horizontal and vertical positions on mild steel plate. Students receive instruction in thermal cutting processes: oxyfuel cutting (OFC) and plasma arc cutting (PAC).

**WELD 101—ARC WELDING I**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: WELD 106. Students receive individualized instruction in shielded metal arc welding (SMAW) in the flat and horizontal positions on low carbon steel plate using E6010 and E7018 electrodes. Students develop skills for weld removal using carbon arc cutting with compressed air (CAC-A).

**WELD 102—ARC WELDING II**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: WELD 101, completion of WELD 106, or permission of instructor. Students receive individualized instruction in shielded metal arc welding (SMAW) PRINCIPLES OF OPERATION. Sound Groove welds and fillet welds in all positions will be made using E7018 electrodes on plain carbon steel.

**WELD 103—ARC WELDING III**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: WELD 102 and completion of WELD 106 or permission of instructor. Students receive individualized instruction in producing sound groove welds in the 2G (horizontal), 3G (vertical up) positions using shielded metal arc welding (SMAW) PRINCIPLES OF OPERATION. Test assemblies are prepared according to drawing specifications and approved by the test supervisor. The student is required to pass "welder performance qualification" testing.

**WELD 104—GAS TUNGSTEN ARC WELDING**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: WELD 100, 106 and 107 or concurrent enrollment in WELD 107 or permission of instructor. Students develop skills required for Gas Tungsten Arc Welding (TIG) in the flat, horizontal and vertical positions on mild steel, stainless steel and aluminum plate.

**WELD 105—GAS METAL ARC/FLUX CORED ARC WELDING**

**Cr: 6 Wkly hrs: 2 hours Lecture  
8 hours Lab**

Prerequisite: WELD 106 and 107 or concurrent enrollment in WELD 107 or permission of instructor. Students develop skills required for Gas Metal Arc (MIG) and flux cored arc welding in the flat, horizontal and vertical positions on mild steel and aluminum plate.

**WELD 106—WELDING TECHNICAL ORIENTATION I**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Fundamentals of beginning welding theory, with emphasis on safety, OAW and SMAW welding processes for joining common materials, manipulative skills, welding consumables, electrical principles and applications.

**WELD 107—WELDING TECHNICAL ORIENTATION II**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: WELD 106 or permission of instructor. Continuation of WELD 106. Advanced welding theory with continuing emphasis on welding safety and advanced welding processes, power sources and procedures (EMAW, FCAW and GTAW) for joining both ferrous and nonferrous metals.

**WELD 108—WELDING METALLURGY**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Study of the metallurgy of welding and joining both ferrous and nonferrous metals, primarily as used in building and repair.

**WELD 110—RELATED WELDING**

**Cr: 4 Wkly hrs: 2 hours Lecture  
4 hours Lab**

An introductory welding course for the trade occupations: The safe use of oxygen fuel gas welding, brazing, soldering and cutting, and S.M.A.W. of mild steel.

**WELD 125—WELDING REFRESHER LABORATORY**

**Cr: 2 Wkly hrs: 4 hours Lab**

Prerequisite: Permission of instructor. Skill development and certification refresher for the purpose of passing employment and/or certification examinations.

**WELD 126—WELDING REFRESHER LABORATORY**

**Cr: 4 Wkly hrs: 8 hours Lab**

Prerequisite: Permission of instructor. Skill development and certification refresher for the purpose of passing employment and/or certification examinations.

**WELD 127—WELDING REFRESHER LABORATORY**

**Cr: 6 Wkly hrs: 12 hours Lab**

Prerequisite: Permission of instructor. Skill development and certification refresher for the purpose of passing employment and/or certification examinations.

**WELD 145—APPLIED PROBLEM SOLVING**

**Cr: 5 Wkly hrs: 5 hours Lecture**

Prerequisite: MATH 090 with a grade of 2.0 or above or satisfactory placement test score and concurrent enrollment in or completion of ATA requirements in AUT-T or RSCON or TEC-D or WELD vocational programs. Uses a lecture/discovery format to augment the math instruction intrinsic in Automotive, Residential Construction, Technical Design or Welding curricula. Uses math concepts and models to enhance problem-solving skills required in the workplace. (Same as AUT-T 145, RSCON 145 and TEC-D 145)

**WELD 190—WELDING SPECIAL PROJECTS**

**Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: Advanced standing with instructor permission. The fabrication and manufacture of welded projects selected by the student or assigned by the instructor. Includes designing, cost analysis, ordering materials, and fabrication of projects.

**WELD 191—WELDING SPECIAL PROJECTS**

**Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: WELD 190 or advanced standing with permission of instructor. A continuation of WELD 190.

**WELD 192—WELDING SPECIAL PROJECTS**

**Cr: 3 Wkly hrs: 6 hours Lab**

Prerequisite: WELD 191 or advanced standing with permission of instructor. A continuation of WELD 191.

**WELD 195—INDEPENDENT STUDY**

Can be offered as: WELD 195/295.

**Cr: 1-5 Wkly hrs: 15 hours Clinic**

Prerequisite: Permission of instructor. With assistance from the instructor, the student will study, independently, the course content as presented in the adopted course outline.

**WORKFORCE DEVELOPMENT—  
DISPATCHER****WDISP 121—DISPATCH INTERVIEW TECHNIQUES**

**Cr: 3 Wkly hrs: 3 hours Lecture**

Provide clear communications and directions using verbal and nonverbal communication devices. Prioritize and manage dispatch actions and responses. Take charge of situations and callers.

**WDISP 122—DISPATCH TECHNIQUES/RESPONSIBILITIES**

**Cr: 5 Wkly hrs: 3 hours Lecture  
4 hours Lab**

Manage dispatch office and response service providers. Attend to customer and service provider needs and concerns. Abide by federal and state communication rules and regulations. Utilize various devices in order to communicate with diverse populations.

**WDISP 123—911 SYSTEM**

**Cr: 3 Wkly hrs: 3 hours Lecture**

Understand the 911 emergency systems and the various communication centers associated with the system. Discover the historical impact of the system on daily personal and political operations.

**WDISP 124—EMERGENCY DISPATCHING/911 OPERATOR**

**Cr: 6 Wkly hrs: 4 hours Lecture  
4 hours Lab**

Prerequisite: WDISP 123. The student will learn the basic skills necessary for employment with emergency dispatch centers and 911 operators.

**WDISP 125—911: LAW, ETHICS AND POLICY**

**Cr: 2 Wkly hrs: 2 hours Lecture**

Prerequisite: Concurrent enrollment in WFT 123 and WFT 124. Dispatchers are communications specialists and are bound by federal laws, public policies and safety, and the confidentiality of the circumstances surrounding emergency responses and the personnel involved.

**WDISP 126—COM CENTER STRESS MANAGEMENT**

**Cr: 1 Wkly hrs: 1 hour Lecture**

This course introduces students to the theory, techniques, and realities of stress management in the communications center and dispatch environment.