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### Auto Body

#### AB 117 Print Reading and Interpretation

##### 3.0 units

Acceptable for credit: Transfer CSU

An introductory class where students will learn to read engineering drawings, evaluate print specifications, recognize orthographic views and visualize the actual objects or projects shown in the illustration. This course is not open to students who are enrolled in or have received credit for AB 330, AT 330, ET 330, MT 330, or AT/ET/MT 117. (Letter Grade or Pass/No Pass)

#### AB 300 Shop Math and Measurement

##### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

An introduction to the mathematics used in the Industrial Technology programs. Students will learn to solve problems using fractions, decimals, percentage, ratios and basic geometric shapes. Students will learn about the Cartesian coordinate system and how to use a variety of basic and precision measuring tools from rulers and tape measures to calipers and micrometers. This course is not open to students who have received credit for AT/ET/MT or WLDT 381 or AT/ET/MT/WLDT 300. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AB 351 Auto Body - Metal**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
This course is designed to give students a basic knowledge of auto body metal repair, which includes metal finishing and plastic filler application. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AB 353 Auto Body - Repair**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: AB 351 - Auto Body - Metal  
This course is designed to increase student's skill and knowledge in the areas of frame; measurement, straightening, and alignment. Course work also includes panel service, and structural panel replacement. (Spring) (Letter Grade or Pass/No Pass)

### **AB 354 Selected Auto Body Paint Projects**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: AB 356 - Automotive Painting Techniques  
Projects selected by the student and developed under the direct supervision and of instructional staff in the auto collision disciplines. Work is completed under the supervision of the responsible instructor in the auto body lab. The student must have the basic knowledge of painting techniques to complete the project. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AB 355 Selected Auto Body Metal Projects**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: AB 351 - Auto Body - Metal  
Projects selected by the student and developed under the direct supervision of instructional staff in the auto collision disciplines. Work is completed under the supervision of the responsible instructor in the auto body lab. The student must have the basic knowledge of painting techniques to complete the project. (Letter Grade or Pass/No Pass)

### **AB 356 Automotive Painting Techniques**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
This course is designed to increase student's skill and knowledge in the areas of automotive painting techniques. Course work includes preparation of vehicle, types of equipment, characteristics of paints, and techniques of paint application. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AB 358 Automotive Refinishing**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: AB 356 - Automotive Painting Techniques

This course is designed to increase student's skill and knowledge in the application of preparing, masking, painting, and detailing techniques. Course work also includes restoring corrosion protection, plastic bumper repair, and custom air brush graphics. (Spring) (Letter Grade or Pass/No Pass)

### **AB 360 Collision Repair**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: AB 353 - Auto Body - Repair

This course is designed to increase student's skill and knowledge in the areas of major collision repair, including vehicle construction, estimating, MIG welding, door, roof, glass, chassis, and electrical service. Students will also develop their abilities to achieve commercially acceptable speed and quality levels in auto collision repair. (Fall) (Letter Grade or Pass/No Pass)

### **AB 370 SkillsUSA**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for ARCH 370, AT 370, EL 370, ET 370, MT 370 or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AB 389 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Acceptable for credit: CSU, UC-Determined after admission  
Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## Accounting

### ACCT 100 Accounting for Entrepreneurs

**3.0 units**

Acceptable for credit: Transfer CSU

A survey of financial and managerial accounting theory and practice with an emphasis on entrepreneurs. This course is not open to students who have received credit for ACCT 101. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### ACCT 105 Introduction to Accounting

**3.0 units**

Acceptable for credit: Transfer CSU

A study of the major areas of accounting to provide an overview of financial, managerial and tax accounting. (Fall, Spring) (Letter Grade or Pass/No Pass)

### ACCT 131 Financial Accounting 1

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the role of financial accounting in business and the accounting process. Topics include recognition, measurement, classification and presentation of business events; and analyzing and recording asset transactions; and performance evaluation. This is the first semester of a two semester course. This course is not open to students who have received credit for ACCT130. (Fall, Spring, Summer) (Letter Grade Only)

### ACCT 132 Financial Accounting 2

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ACCT 131 - Financial Accounting 1

An introduction to the role of financial accounting in business and the accounting process. Topics include recognition, measurement, and classification of business events; analyzing and recording financial investment, liability and equity transactions; and performance evaluation. This is the second semester of a two semester course. This course is not open to students who have received credit for ACCT130. (Fall, Spring, Summer) (Letter Grade Only)

### ACCT 140 Managerial Accounting

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ACCT 120

Introduces the analysis and techniques for aiding management in planning and controlling decisions, and the use of accounting data for budgeting, cost control, pricing, evaluation of performance and general decision making. This course is not open to students who have received credit for ACCT 123 and/or ACCT 124. (Fall, Spring) (Letter Grade Only)

### ACCT 150 Introduction to Accounting Information Systems

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the development and analysis of accounting information systems including the use of a commercially-used

small business accounting management system (QuickBooks). This course is not open to students who have received credit for Accounting 110. (Fall, Spring) (Letter Grade Only)

### ACCT 160 Introduction Financial Statement Analysis

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the analysis, interpretation, and research of financial statement information. (Fall, Spring) (Letter Grade Only)

### ACCT 170 Introduction to Tax Accounting

**3.0 units**

Acceptable for credit: Transfer CSU

A survey of the laws, procedures, returns, and subsidiary schedules involved in the preparation of federal and state personal tax returns. This course meets the continuing education requirements of the California Tax Preparer Program. This course is not open to students who have completed ACCT 305. (Fall, Spring) (Letter Grade Only)

### ACCT 317 Bookkeeping 1

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of basic bookkeeping practices using accrual accounting concepts for sole proprietorships, with emphasis on manual techniques of data entry and financial statement preparation. (Fall) (Letter Grade or Pass/No Pass)

### ACCT 318 Bookkeeping 2

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: ACCT 317 - Bookkeeping 1

A study of basic bookkeeping practices using accrual accounting concepts for partnerships and merchandising businesses, with emphasis on manual techniques of data entry and financial statement preparation. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### ACCT 327 Payroll Accounting

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of payroll computations, payroll record keeping, and the filing of quarterly and annual payroll tax reports. Topics include state disability insurance, unemployment insurance, and income taxes. Introduces, at the federal level, Social Security, unemployment insurance, and income tax and how these taxes affect the employee/employer. (Spring) (Letter Grade or Pass/No Pass)

### ACCT 399 Special Topics in Accounting

**0.5 - 3.0 units**

Acceptable for credit:

Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified as 399 are not on a regular cycle (not within a two year period) (Pass/No Pass)

## Agriculture

### AG 100 Introduction to Agricultural Studies and Careers

#### 1.0 unit

Acceptable for credit: Transfer CSU

This course provides guidance for the educational pathways leading to degrees and certificates in the agricultural sciences. Emphasis also provided in the exploration of agriculture careers and employment opportunities. Assists students in setting both educational and career goals. Students develop an educational plan based on the curriculum requirements of agriculture majors. Students will learn the skills necessary for success in obtaining, maintaining and advancing in agriculture careers. Current issues that affect agriculture will be discussed. (Letter Grade or Pass/No Pass)

### AG 125 Soils and Plant Nutrition

#### 4.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: AG-PS 128L

Advisories: CHEM 120 - Introductory Chemistry

A study of the physical, chemical, and biological properties of soils, including plant nutrition and factors affecting the availability of nutrients. Composition, value, use and application of fertilizer materials and soil amendments will be covered. The course is not open to students who are enrolled in or have received credit for VEN 125. (Fall, Spring) (Letter Grade or Pass/No Pass)

### AG 130 Integrated Pest Management

#### 4.0 units

Acceptable for credit: Transfer CSU

Prerequisite: VEN 102 - Introduction to Viticulture ; or AG 161 - Introduction to Plant Science

A study of the various pests and diseases found in California vineyard, fruit, vegetable, nut and grain crops - emphasizing pest and disease identification, sampling and monitoring techniques, and control methods. Integrated pest management approaches will be emphasized, including the latest bio-control strategies, biotechnological advances, and disease modeling for risk management. Students will visit local vineyards and farms providing "hands-on" learning opportunities. Two separate lab sections will be offered in order to provide students the appropriate option for their agricultural field of interest. Section I will be for the Viticulture focus, Section II will be for the Agriculture focus. (Letter Grade or Pass/No Pass)

### AG 134 Internship Seminar

#### 1.0 unit

Acceptable for credit: Transfer CSU

Corequisite: Concurrent enrollment in AG 149, CWE 149 or CWE 302

Provides students with a seminar format to discuss, analyze, and critically evaluate their work-based learning experiences. This forum emphasizes job market information, attitudes, and abilities that facilitate job success; skills necessary for maintaining employment; and techniques for enhancing job advancement opportunities. (Fall, Spring) (Letter Grade Only)

### AG 149 Cooperative Work Experience: Occupation

#### 1.0 - 8.0 units

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. NUMBER OF TIMES COURSE CAN BE REPEATED: Students enrolled in CWE 149 may earn up to 8 units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience course will be included in the 16 unit maximum. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### AG 150 Introduction to Agribusiness

#### 3.0 units

Acceptable for credit: Transfer CSU

C-ID Course Number: AB 104

Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process. (Letter Grade or Pass/No Pass)

### AG 152 Introduction to Animal Science

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: AG-AS 104

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry. Field trips may be required. (Letter Grade or Pass/No Pass)

### AG 153 Introduction to Sustainable Agriculture

#### 3.0 units

Acceptable for credit: Transfer CSU

Introduction to the history, definitions, concepts, principles and practices of sustainable agricultural systems. Includes an examination of case studies to connect sustainable agriculture

principles to actual farming practices. (Letter Grade or Pass/No Pass)

### **AG 154 Introduction to Fruit Science**

#### **3.0 units**

Acceptable for credit: Transfer CSU

The botany, taxonomy, and development of major fruit, vine, and nut crops in California including variety selection, production practices including site selection establishment, fertilization, pollination, irrigation, harvest, storage, processing, marketing, pest management, and pruning. (Letter Grade or Pass/No Pass)

### **AG 155 Introduction to Mechanized Agriculture**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Basic mechanical skills in woodworking, cold metal, electricity, plumbing, concrete, and project construction skills as related to farm maintenance and repair. Development of hand and power tool skills as well as emphasis on safety practices for all mechanical areas. Shop safety. Laboratory required. (Letter Grade or Pass/No Pass)

### **AG 156 Intro to Environmental Horticulture**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

General course in environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries including: basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and houseplants, floral design, plant identification, turfgrass installation and care, and survey of career opportunities. Laboratory required. (Letter Grade or Pass/No Pass)

### **AG 157 Agricultural Sales, Communication & Leadership**

#### **3.0 units**

Acceptable for credit: Transfer CSU

The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self-management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Students will gain experience through role-play, formal sales presentations, and job shadowing. The course content is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis. (Letter Grade or Pass/No Pass)

### **AG 158 Agricultural Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

The place of agriculture and farming in the economic system; basic economic concepts and problems of agriculture; pricing and marketing problems, factors of production; and state and federal farm programs affecting the farmer's economic position. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AG 160 Plant Propagation and Production**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AG-EH 116L

Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production. Laboratory required. (Letter Grade or Pass/No Pass)

### **AG 161 Introduction to Plant Science**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AG-PS 104

Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. (Letter Grade or Pass/No Pass)

### **AG 162 Agricultural Plant Pathology**

#### **4.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: BIOL 100 - Introductory Biology

A study of the nature and causes of disease in plants, with particular emphasis on agricultural commodities. This course will cover disease cycles, symptoms, host-parasite interactions, disease development in relation to the environment, methods of prevention, and methods of control such as cultural, chemical and biological. Industry-based field trips and/or guest speakers will be used to exemplify classroom knowledge. (Fall) (Letter Grade or Pass/No Pass)

### **AG 163 Economic Entomology**

#### **4.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: BIOL 100 - Introductory Biology

Introduction to insects and mites of economic importance to agriculture. Covers the morphology, taxonomy, identification, life cycles, hosts, habitat relationships and control methods for insects of economic importance. Industry-based field trips and/or guest speakers will be used to exemplify classroom knowledge. (Fall) (Letter Grade or Pass/No Pass)

### **AG 164 Weed Science**

#### **4.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: BIOL 100 - Introductory Biology

Introduction to the classification, identification and life cycles of common and poisonous weeds in California which are detrimental to cultivated crops, grasslands, animals and humans. Management practices to prevent and control weed population establishment will be covered. Industry-based field trips and/or guest speakers will be used to exemplify classroom knowledge. (Spring) (Letter Grade or Pass/No Pass)

### **AG 165 Qualified Applicator Training**

#### **2.0 units**



Acceptable for credit: Transfer CSU

This course will prepare students to take the Qualified Applicator License (QAL) or Qualified Applicator Certificate (QAC) exam as given by the California Department of Pesticide Regulation. Students will study pest management, pesticide labels and applications, safety, equipment, laws and regulations. Additional emphasis will be placed on exam categories based on student need. (Spring, Summer) (Letter Grade or Pass/No Pass)

### **AG 189 Independent Projects in Agribusiness**

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent Projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be issued no later than the end of the second week of the semester. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **AG 315 Fertilizers & Plant Nutrition**

**4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course will provide an introduction to fertilizers and plant nutrition. Essential nutrients for plant development will be studied as well as deficiency symptoms and methods of correcting for these deficiencies. Fertilizer and other soil amendments will be studied as well as the proper management and application methods for these products. This course is not open to students who have completed or are enrolled in VEN 315. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Administration Of Justice**

### **AJ 101 Introduction to Criminal Justice**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: AJ 110

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for English 101

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the U.S. justice system, particularly the structure and function of U.S. law

enforcement, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 102 Criminal Procedures**

**3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 122

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

This course provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 103 Concepts of Criminal Law**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: AJ 120

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 104 Legal Aspects of Evidence**

**3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 124

Advisories: ENGL 514 - Writing Skills 4 or eligibility for English 101

This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process. Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest; search and seizure, kinds and degrees of evidence and rules governing admissibility; and judicial decisions interpreting individual rights and case studies. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 105 Community Relations**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: AJ 160

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of

administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution, and ethics. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 111 Criminal Investigation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 140

Advisories: ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. (Fall) (Letter Grade or Pass/No Pass)

### **AJ 120 Juvenile Law and Procedures**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 220

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focuses on Juvenile Law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 130 Introduction to Corrections**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 200

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

This course provides a critical analysis of punishment, the various types of punishment, alternatives to punishment, and the impact of punishment on the Criminal Justice System. A Critical examination of the types of Correctional institutions and the clients housed in each institution. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 150 Introduction to Forensics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: AJ 150

Advisories: ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

This course provides an introduction to the role of forensics in criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents and controlled substances. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AJ 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, re-search, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **AJ 315 Introduction to Criminology**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Theories of the causes of criminal behavior, focusing on the person and the group; criminal behavior systems; the police behavioral response to criminal activity and its nature and causes. (Spring) (Letter Grade or Pass/No Pass)

## **Anthropology**

### **ANTH 101 Introduction to Biological Anthropology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ANTH 110

An introductory course on the study of human evolution that explores the history of evolutionary thought, the biological basis of life, genetics, population biology, modern human variation, paleontology, primatology and hominid evolution. Important scientific and social issues that relate to biological anthropology will also be presented. Students are encouraged to concurrently enroll in Anthropology 110. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ANTH 102 Introduction to Cultural Anthropology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introductory course on contemporary human sociocultural adaptations from around the world. This course is a cross-cultural survey of important avenues of anthropological research and attempts to understand and explain the similarities and differences in human behavior, social institutions, and total ways of life. By studying all human societies, anthropologists attempt to understand the variability of culture to gain a holistic view of the human condition. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## ANTH 103 Introduction to Archaeology

### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ANTH 150

An introduction to the study of archaeological concepts, methods, and theory as well as human prehistory. The course will cover many of the fundamental principles of archaeological research and provide an overview of human prehistory from the earliest evidence of culture up to the development of literate civilizations. We will also explore the types of questions archaeologists ask about the human past and the scientific methods used to address these questions. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## ANTH 105 Language And Culture

### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An introduction to the study of language and communication in relation to culture. Focus is on the structure, function, and history of language as well as the social, symbolic and practical uses of language. Linguistic concepts, methodologies, and theoretical assumptions will be explored. This course is not open to students who are enrolled in or have received credit for ENGL 105. (Fall, Spring) (Letter Grade or Pass/No Pass)

## ANTH 110 Biological Anthropology Lab

### 1.0 unit

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ANTH 115L

Corequisite: ANTH 101 - Introduction to Biological Anthropology or completion of ANTH 101

A hands-on laboratory class designed to complement the Anthropology 101 lecture class. This lab class explores the biological basis of human life from an evolutionary perspective through the study of genetics, human variation, human osteology, non-human primates, and hominin fossil remains. (Fall, Spring) (Letter Grade or Pass/No Pass)

## ANTH 122 States of Consciousness

### 3.0 units

Acceptable for credit: Transfer CSU

An exploration of different states of consciousness, the means of attaining those states, their uses, misuses, and consequences. Topics include theories of consciousness, neural correlates of conscious experience, substance use disorders, sleep, dreams, hypnosis, dissociation and dissociative disorders, out-of-body states, near-death experiences, paranormal phenomena, meditation, non-Western methods of altering consciousness, and peak experiences. This course is not open to students who are enrolled in or who have received credit for PSY 122 or HUSV 122. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Apprenticeship Training

The primary objective of the apprenticeship program is to train workers in skilled occupations to meet the needs of the industry. Classes are taught offsite and certificates are given by the individual trades.

The program is open to all individuals 18 years of age or older without regard to race, color, religion, national origin or sex.

Applications or information concerning applications may be obtained from the industrial technology department.

The training received by an apprentice is in the classroom and at the worksite. Therefore, enrollment in all courses listed under apprenticeship training is limited to state registered apprentices and qualified applicants.

## Contact Information

**Gilbert Rea**, Electricians Apprenticeship

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[sbjatc@ibew413.org](mailto:sbjatc@ibew413.org)

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**Richard Beesmer**, Operating Engineers Apprenticeship

**Phone:** 562.695.0611

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## APRN 481 Electricity

### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Limited to state registered apprentice's selected by the Santa Barbara County Electrical JATC.

Prerequisite: Applicants must meet minimum qualifications and pass an aptitude test in order to interview with the JATC. The applicant is placed on an ongoing ranked eligibility list based on the interview score. Apprenticeships are offered, in order, from the top of the list based on the industry need in Santa Barbara County.

The apprenticeship program provides classroom theory directly related to the skills performed at the work site, including tools and equipment, electrical principles and applications to basic AC-DC circuitry, motors, generators, alternative energy, controls, transformers, electrical codes and ordinances, related mathematics, blueprints, and safety practices. (Letter Grade Only)

## APRN 484 Plumbers (Pipe Fitters)

### 3.0 units

Acceptable for credit: C - Credit - Not Degree Applicable

Limitations on Enrollment: Limited to indentured apprentices or those awaiting indenture.

Prerequisite: Enrollment is through the Plumbers (Pipe Fitter)

Apprenticeship & Training Facility in Buellton, CA. Applicants can apply throughout the year. They are selected once a year for Fall and enrollment is based on state employment in the plumbing and pipe trade industry.

The apprenticeship program provides classroom theory directly related to skills performed at the work site, including tools and equipment, materials, fixtures, layout, installation practices,



blueprint reading, related mathematics, laws and regulations, safety practices, and employer-employee relations. (Letter Grade Only)

### **APRN 486 Operating Engineers**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Limitations on Enrollment: Limited to Indentured apprentices or those awaiting indenture.

Prerequisite: Enrollment is through the Operating Engineers Training Facility (Camp San Luis Reserve Base, San Luis Obispo, CA). Applicants can apply throughout the year. They are selected once a year for Fall and enrollment is based on state employment in the union electrical industry.

The apprenticeship program provides classroom theory directly related to the skills performed at the work-site, including the repair and operation of heavy-duty equipment, related mathematics and science, particularly as they pertain to the electrical and hydraulic systems and first aid and safety practices. The total program is designed for specialization in heavy-duty mechanics. (Letter Grade Only)

## **Architecture**

### **ARCH 111 Architectural Graphics & Design I**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Introduces the graphic tools, techniques, and conventions used to communicate architectural ideas. Tools, techniques, and conventions include freehand drawing, architectural drawing systems, paraline drawing, multi view drawing, perspective drawing, rendering of tonal values, model making, and architectural presentations. Covers the fundamental principles and application of two- and three-dimensional architectural design. (Spring) (Letter Grade or Pass/No Pass)

### **ARCH 112 Architectural Graphics & Design II**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ARCH 111 - Architectural Graphics & Design I  
Continuation of ARCH 111 plus the issues, concepts, processes and skills pertaining to research methods, building form analysis, color theory, and the design and visual communication of architectural space. Projects of increasing complexity are assigned and developed using various presentation techniques and media. (Fall) (Letter Grade or Pass/No Pass)

### **ARCH 121 Architectural Drawing 1**

#### **4.0 units**

Acceptable for credit: Transfer CSU

The first course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and the development of a set of residential plans that may be submitted for plan check approval. The first semester presents an overview of planning and building, particularly plans and schedules. (Spring) (Letter Grade or Pass/No Pass)

### **ARCH 122 Architectural Drawing 2**

#### **4.0 units**

Acceptable for credit: Transfer CSU

The second course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and development of a set of residential plans that may be submitted for plan check approval. The second semester covers structural details, energy, and mechanical requirements, and a study of fire resistive materials and finishes. (Fall) (Letter Grade or Pass/No Pass)

### **ARCH 131 Building Construction Materials and Methods**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Concurrent enrollment in; ARCH 121 - Architectural Drawing 1

A general survey of the components, materials, types, and methods of building construction; terminology as applied to codes, foundations, concrete, light frame wood, heavy timber, soils, and the structural elements. This course is strongly recommended for those who are entering the construction industry. (Letter Grade or Pass/No Pass)

### **ARCH 151 Architectural Design Studio I**

#### **5.0 units**

Acceptable for credit: Transfer CSU

Advisories: ARCH 112 - Architectural Graphics & Design II

Prerequisite: ARCH 111 - Architectural Graphics & Design I

A continued and refined study begun in ARCH 111 & 112 of design principles and processes. Environmental and visual phenomena such as architectural form, function, context, and daylighting are studied through intermediate level design problems. (Letter Grade or Pass/No Pass)

### **ARCH 152 Architectural Design Studio II**

#### **5.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ARCH 151 - Architectural Design Studio I

A continuation of the study of design principles and processes. Projects of an advanced level are assigned in which students have the opportunity to design complex, multi-use, multi-story buildings. Case studies are performed of specific building types before the design process begins. (Letter Grade or Pass/No Pass)

### **ARCH 160 Digital Tools In Architecture**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ARCH 111 - Architectural Graphics & Design I

Introduces computer design and presentation skills for architecture students. Topics include image editing, page layout and 3D modeling. This course is not open to students who are enrolled in or have received credit for ET 160. (Pass/No Pass)

### **ARCH 321 International Building Code**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Introduces the student to the purpose and use of the International Building Code (IBC), and prepares the student to make design and job site judgments based on the Code. (Fall) (Letter Grade or Pass/No Pass)

**ARCH 370 SkillsUSA****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, AT 370, EL 370, ET 370, MT 370 or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Fall, Spring) (Letter Grade or Pass/No Pass)

**Art****ART 101 Art Appreciation****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTH 100

Advisories: Eligibility for ENGL 101 or successful completion of either; ENGL 514 - Writing Skills 4 ; or READ 110 - Introduction to Critical Reading

A study of the visual arts as an expression of thought and culture. (Fall, Spring) (Letter Grade or Pass/No Pass)

**ART 103 Art History Ancient to Medieval****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTH 110

Advisories: Eligibility for ENGL 101 or successful completion of either; ENGL 514 - Writing Skills 4 ; or READ 110 - Introduction to Critical Reading

A survey of painting, sculpture, and architecture in the western world from the Paleolithic through the Gothic period. (Fall) (Letter Grade or Pass/No Pass)

**ART 104 Art History Renaissance to Modern****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTH 120

Advisories: ENGL 514 - Writing Skills 4 ; or READ 110 - Introduction to Critical Reading ; Eligibility for ENGL 101

A survey of painting, sculpture, and architecture in the western world from Renaissance to modern times. (Spring) (Letter Grade or Pass/No Pass)

**ART 105 Art History of Mexico****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: Eligibility for ENGL 101 or successful completion of either; ENGL 514 - Writing Skills 4 ; or READ 110 - Introduction to Critical Reading

A survey of the art of Mesoamerica, tracing the cultural development of the Valley of Mexico and the Yucatan Peninsula from the earliest archaeological findings to the present time. (Letter Grade or Pass/No Pass)

**ART 106 Art of the 20th Century****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 103 - Art History Ancient to Medieval ; and ART 104 - Art History Renaissance to Modern

A survey of art of the 20th century including its roots in the 19th century. Topics include the investigation of appropriation from a global perspective, alternative art markets, and the impact of multiculturalism on content, subject matter, and the studio process. A variety of media are covered such as architecture, painting, sculpture, film, photography, and the digital arts. (Letter Grade or Pass/No Pass)

**ART 107 Computer Fine Art****3.0 units**

Acceptable for credit: Transfer CSU

An examination of the styles and techniques of computer fine art. (Letter Grade or Pass/No Pass)

**ART 108 Design 1 on the Computer****3.0 units**

Acceptable for credit: Transfer CSU

A basic study of visual design elements and principles, using the computer. This course is not open to students who are enrolled in or have received credit for GRPH 108. (Fall, Spring) (Letter Grade or Pass/No Pass)

**ART 109 Art History: American Art****3.0 units**

Acceptable for credit: Transfer to UC, CSU

A comprehensive survey of the rich cultural diversity of American art from Colonial times to the present. Major artists and styles will be studied in the context of American culture. (Fall, Spring) (Letter Grade or Pass/No Pass)

**ART 110 Design 1****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTS 100

An introduction to the visual elements and principles of design. This is a lecture/lab experience requiring specific materials. (Fall, Spring) (Letter Grade or Pass/No Pass)

**ART 112 Design Color Theory****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTS 270

Advisories: ART 110 - Design 1 ; or GRPH 108 - Design 1 on the Computer ; or ART 108 - Design 1 on the Computer

The study of color, what it is, how we see it, and strategies for its application in the visual arts. (Spring) (Letter Grade or Pass/No Pass)

**ART 113 Three Dimensional Design****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTS 101

Prerequisite: ART 110 - Design 1

Investigates a series of spatial design problems as they might apply to professional fields, including architecture, interior design, display, and sculpture. (Letter Grade or Pass/No Pass)

### **ART 115 Introduction to Animation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A lecture/lab introduction to animation production including classical character animation and nontraditional techniques. This course is not open to students who are enrolled in or have received credit for Film 115 or MMAC 115. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 120 Drawing 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An exploration of freehand drawing using a variety of drawing media, with emphasis on two and three-dimensional spatial composition. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ART 121 Drawing 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ARTS 205

Prerequisite: ART 120 - Drawing 1

A continuation of Art 120 with greater emphasis on pictorial composition, style, and color drawing techniques. (Spring) (Letter Grade or Pass/No Pass)

### **ART 122 Life Drawing 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ART 120 - Drawing 1

A fundamental course in drawing the human figure including anatomy, form, movement, and composition. (Letter Grade or Pass/No Pass)

### **ART 123 Life Drawing 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ART 122 - Life Drawing 1

A continuation of life drawing in the study of the human figure with an emphasis on movement and balance. Two hours lecture and four hours lab per week. (Letter Grade or Pass/No Pass)

### **ART 124 Mixed Media 1**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ART 110 - Design 1 ; ART 125 or ART 129

An exploration of a variety of traditional and distinctly unique 2-dimensional art media as they relate to drawing and painting mediums. (Fall) (Letter Grade or Pass/No Pass)

### **ART 125 Painting In Acrylics 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 110 - Design 1 ; and ART 120 - Drawing 1

An introduction to acrylic painting, including the use of materials and equipment, basic techniques, and approaches to color and composition. (Letter Grade or Pass/No Pass)

### **ART 126 Painting in Acrylics 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ART 125 - Painting In Acrylics 1

An intermediate course in acrylic painting emphasizing the development of skills and exploration of style. (Letter Grade or Pass/No Pass)

### **ART 127 Painting in Watercolor 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 110 - Design 1 ; and ART 120 - Drawing 1

A study of watercolor techniques. (Letter Grade or Pass/No Pass)

### **ART 129 Painting in Oils 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 110 - Design 1 ; and ART 120 - Drawing 1

An introduction to oil painting including the use of materials and equipment, basic techniques, and approaches to color and composition. Advisory: ART 110 and ART 120 strongly recommended. 6 hours of lecture/lab per week. 3 units. (Letter Grade or Pass/No Pass)

### **ART 130 Painting in Oils 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ART 129 - Painting in Oils 1

An intermediate course in oil painting emphasizing the development of skills and an exploration of style. (Letter Grade or Pass/No Pass)

### **ART 133 Composition Studies: Figure 1**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 120 - Drawing 1 ; and ART 122 - Life Drawing 1

A beginning exploration of color, composition and style in artworks of the human figure. Students may choose to work in charcoal, pastels, acrylics, oils, watercolor, mixed media, or other appropriate media. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 134 Composition Studies: Figure 2**

#### **0.5 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 133 - Composition Studies: Figure 1

An intermediate exploration of color, composition and style in artworks of the human figure. Students may choose to work in charcoal, pastels, acrylics, oils, watercolor, mixed media, or other appropriate media. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 137 Life Drawing 3**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 123 - Life Drawing 2

An advanced level of drawing focused on the study of the figure with an emphasis on personal style, movement and experimental process (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 144 Mixed Media 2**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 124 - Mixed Media 1

An intermediate advanced level of mixed media focused on 2 and 3 dimensional art materials as they relate to composition and personal style. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 146 Painting in Acrylics 3**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 126 - Painting in Acrylics 2

An advanced course in acrylic painting emphasizing the continued growth of skills and the development of a personal style. (Letter Grade or Pass/No Pass)

### **ART 150 Painting in Oils 3**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 130 - Painting in Oils 2

Advanced course in oil painting emphasizing the continued growth of skills and the development of a personal style. (Letter Grade or Pass/No Pass)

### **ART 154 Composition Studies: Figure 3**

#### **0.5 units**

Acceptable for credit: Transfer CSU

Prerequisite: ART 134 - Composition Studies: Figure 2

An advanced exploration of color, composition and style in artworks of the human figure. Students may choose to work in charcoal, pastels, acrylics, oils, watercolor, mixed media, or other appropriate media. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 160 Ceramics 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to low-fire clay and glaze processes using hand-building forming techniques. Because this is a lecture/lab course, students are expected to work 4 hours/week outside of class time. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ART 161 Ceramics 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 160 - Ceramics 1

A continuation of Ceramics 1 and low-fire clay and glaze processes, using the potter's wheel, extruder, making and using molds, graphic design with low-fire colored glazes. Because this is a lecture/lab course, students are expected to work 4 hours/week outside of class time. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 162 Ceramics 3**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 161 - Ceramics 2

An introduction to high fire ceramic materials and techniques, including research into ceramic materials and experimental use of high fire glazes. Because this is a lecture/lab course, students are expected to work 4 hours/week outside of class time. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 163 Ceramics Workshop**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ART 162 - Ceramics 3

A continuation of ART 162 with individualized assignments. Because this is a lecture/lab course, students are expected to work 4 hours/week outside of class time. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 164 Sculpture 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

This is a lecture/lab course involving 2 hours of lecture and 4 hours of lab each week. It is a basic exploratory course in sculptural techniques and materials. (Letter Grade or Pass/No Pass)

### **ART 165 Sculpture 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

This is a lecture/lab course involving 2 hours of lecture and 4 hours of lab each week. It is an expanded exploration in sculpture techniques and materials. (Letter Grade or Pass/No Pass)

### **ART 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **ART 199 Topics in Art**

#### **0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. See the current schedule of classes for topics being offered.

Offerings identified as 199 are not offered on a regular cycle (not within a two year period). (Letter Grade or Pass/No Pass)

### **ART 199S Custom Made Ceramics Tools**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Advisories: ART 160 - Ceramics 1 ; or ART 366 - Working the Potter's Wheel

This is a lecture/lab course involving 1 hour of lecture and 3 hours of lab each week. It will include a study of ceramics tools and the creation of tools to meet personal creative needs. (Letter Grade or Pass/No Pass)

### **ART 366 Working the Potter's Wheel**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A lecture/lab course introducing students to using the potter's wheel as a tool for shaping clay. This course provides all necessary information for students new to the use of the potter's wheel. Students will need to purchase clay and tools for their own use. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 367 Advanced Potter's Wheel**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ART 366 - Working the Potter's Wheel

A lecture/lab course which expands upon the skills of Art 366, Working the Potter's Wheel. This course explores the vast array of contemporary ceramic practices based primarily on the use of the potter's wheel, while also further developing students' skills at forming clay on the wheel. Students will need to purchase clay and tools for their own use. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 368 Modifying Forms from the Wheel**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ART 366 - Working the Potter's Wheel

A lecture/lab course which expands upon the skills of Art 367, Advanced Potter's Wheel. This course focuses on the development of personal expression through use of the potter's wheel. Students will need to purchase clay and tools for their own use. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ART 380 Art Lab 1 (Ceramics)**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: ART 163 - Ceramics Workshop ; or ART 199 - Topics in Art as related to ceramics; or ART 366 - Working the Potter's Wheel ; or ART 367 - Advanced Potter's Wheel ; or ART 368 - Modifying Forms from the Wheel ; or ART 399 - Topics in Art as related to ceramics; ART 160 - Ceramics 1 ; or ART 161 - Ceramics 2 ; or ART 162 - Ceramics 3

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may not be concurrently enrolled in Art 380 and Art 381. (Fall, Spring) (Pass/No Pass)

### **ART 381 Art Lab 2 (Ceramics)**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: ART 160 - Ceramics 1 ; or ART 161 - Ceramics 2 ; or ART 162 - Ceramics 3 ; or ART 163 - Ceramics Workshop ; or ART 199 - Topics in Art (related to Ceramics); or ART 366 - Working the Potter's Wheel ; or ART 367 - Advanced Potter's Wheel ; or ART 368 - Modifying Forms from the Wheel ; or Art 399 (as related to ceramics)

An open-entry laboratory course designed to provide students with the opportunity to refine and expand techniques learned in the ceramics co-requisite course. Students must be enrolled in an appropriate co-requisite course in order to enroll in Art 381. Students enrolled in this course cannot be co-enrolled in ART 380. (Fall, Spring) (Pass/No Pass)

### **ART 382 Art Lab 1 (Sculpture)**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: ART 164 - Sculpture 1 ; or ART 165 - Sculpture 2

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. Students may not be concurrently enrolled in Art 382 and Art 383. (Pass/No Pass)

### **ART 383 Art Lab 2 (Sculpture)**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: ART 164 - Sculpture 1 ; or ART 165 - Sculpture 2

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Pass/No Pass)

### **ART 399 Topics in Art**

#### **1.0 - 4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: Prerequisites, co-requisites or advisories will be included for each course developed under this curriculum shell, as is appropriate for the discipline described in the course title. Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified as 399 are not offered on a regular cycle (not within a two-year period). (Letter Grade or Pass/No Pass)

### **ART 399A Topics in Art: Teapots**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ART 160 - Ceramics 1 ; or ART 366 - Working the Potter's Wheel

Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. See the current schedule of classes for topics being offered. Offerings identified as 399 are not offered on a regular cycle (not within a two-year period). (Letter Grade or Pass/No Pass)



## American Sign Language

### ASL 120 American Sign Language 1

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introductory course in American Sign Language (ASL) which presents basic sign vocabulary and grammar, the manual alphabet and topics related to signing and deafness. (Fall, Spring) (Letter Grade or Pass/No Pass)

### ASL 121 American Sign Language 2

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ASL 120 - American Sign Language 1

A continuation of American Sign Language (ASL) 120, emphasizing receptive and expressive skills, aspects of ASL grammar, vocabulary, literature, subcultures within the deaf community and the various education regimes for deaf children in the United States. (Fall) (Letter Grade or Pass/No Pass)

### ASL 124 American Sign Language 3

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ASL 121 - American Sign Language 2

Continuing development of skills learned in American Sign Language (ASL) 121 emphasizing ASL grammar, vocabulary and idiomatic constructions. Provides an opportunity for further development of conversational techniques, focusing on expressive and receptive skills. Deaf cultural issues, non-manual markers, advanced classifiers, and numbering systems will be explored. (Letter Grade or Pass/No Pass)

### ASL 126 American Sign Language 4

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ASL 124 - American Sign Language 3

This advanced course expands functions and syntax from ASL 124 and focuses on developing students' communicative competency in American Sign Language. Higher level vocabulary and grammatical patterns, including classifiers and the use of spatial location, are explored with a focus on productive skills. Deaf culture, behavior, and norms are also studied as they relate to advanced signing skills. (Spring) (Letter Grade or Pass/No Pass)

### ASL 130 Conversational American Sign Language

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ASL 120 - American Sign Language 1

Designed to improve conversational skills in American Sign Language by increasing vocabularies and perfecting grammatical structures. Emphasis is on improving expressive and receptive skills. (Spring) (Letter Grade or Pass/No Pass)

### ASL 138 History Of Deaf

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4 and/or; Eligibility for ENGL 101.

A culturally diverse exploration of the deaf from Aristotle to the present. Focus is on the ideas, events and laws that have shaped the community as viewed through literature, folklore, art, and philosophy. Interrelationship of societies is emphasized. This course is not open to students who are enrolled in or have received credit for History 138. (Spring) (Letter Grade or Pass/No Pass)

### ASL 189 Independent Projects

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## Astronomy

### ASTR 100 Elementary Astronomy

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

A survey course introducing the general principles and fundamental facts of astronomy. (Letter Grade or Pass/No Pass)

### ASTR 121 Elementary Astronomy Laboratory

**1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Corequisite: ASTR 100 - Elementary Astronomy or completion of ASTR 100

A laboratory course emphasizing practice and interpretation of astronomical observations for students that are concurrently taking the ASTR 100 lecture course or those that have previously passed it with a grade of "C" or higher. When weather permits, students will observe objects in the sky with and without instruments such as telescopes. In-class simulations will be substituted when direct observation is not possible. The moon, stars, constellations, planets and other solar system bodies, and various deep-sky objects will be studied as well as the methods used to catalog, chart, and find them. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Automotive Technology

### AT 100 Automotive Fundamentals

**4.0 units**

Acceptable for credit: Transfer CSU

Designed to teach the student complete car care, emphasizing the operating principles and service operations on all types of automobiles and light trucks. Includes investigation of the impacts that the automobile has on modern life, the economy and the environment. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **AT 117 Print Reading and Interpretation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introductory class where students will learn to read engineering drawings, evaluate print specifications, recognize orthographic views and visualize the actual objects or projects shown in the illustration. This course is not open to students who are enrolled in or have received credit for AB 330, AT 330, ET 330, MT 330, or AB/ET/MT 117. (Letter Grade or Pass/No Pass)

### **AT 133 Automotive Engine Rebuilding**

#### **5.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Must take and pass the Lab Safety Test

The intent of this course is to introduce the student to the diagnosis and repair of automotive engines. Laboratory experiences will include engine evaluation, removal, disassembly, precision measurement, inspection and evaluation of engine components, cylinder head reconditioning, engine reassembly and installation. (Spring) (Letter Grade Only)

### **AT 300 Shop Math and Measurement**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to the mathematics used in the Industrial Technology programs. Students will learn to solve problems using fractions, decimals, percentage, ratios and basic geometric shapes. Students will learn about the Cartesian coordinate system and how to use a variety of basic and precision measuring tools from rulers and tape measures to calipers and micrometers. This course is not open to students who are enrolled in, or have received credit for AT 381, AB 381, ET 381, MT 381, WLDT 381, or AB/ET/MT/WLDT 300. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AT 303 Automotive Electricity**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must take and pass the Lab Safety Test

Designed to give the student a strong background in basic automotive electricity and electronic concepts. Includes discussion and hands on practice with basic theories, operation, diagnosis, and service of the electrical, electronic, and computer control systems with an emphasis on preparing the student for professional certification testing. (Fall, Spring, Summer) (Letter Grade Only)

### **AT 306 Auto Air Conditioning Systems**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: AT 303 - Automotive Electricity

In this course students study the theory, operation, diagnosis, and repair of automotive heating, air conditioning and engine cooling systems. (Fall, Spring) (Letter Grade Only)

### **AT 313 Automotive Brakes**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A comprehensive examination of automotive and light truck brakes. Emphasis on repair and troubleshooting of domestic and import systems, drum and disc mechanical systems, power brake systems, anti-skid systems, and computerized brake systems. (Fall) (Letter Grade or Pass/No Pass)

### **AT 314 Suspension and Alignment**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Designed to familiarize the student with the theory of suspension design, and the repair and alignment of automotive suspensions including long and short arm suspension, McPherson Struts, Solid Axle, and Twin I Beam types. (Spring) (Letter Grade or Pass/No Pass)

### **AT 323 Power Trains**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction and comprehensive examination of automotive drive lines and differentials; manual transmissions; manual transaxles; automatic transmission fundamentals; flywheel and clutch and 4-wheel drive. Extreme emphasis is placed on principles of operation, troubleshooting and intensive repair. (Fall) (Letter Grade or Pass/No Pass)

### **AT 324 Automatic Transmissions**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Designed to make the student proficient in four popular automotive transmissions and transaxles, foreign and domestic. Emphasis is on competent repair and troubleshooting of the automatic transmission and transaxles. (Spring) (Letter Grade or Pass/No Pass)

### **AT 334 Automotive Machining 1**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must take and pass the Lab Safety Test.

Prerequisite: AT 133 - Automotive Engine Rebuilding

An intensified course in automotive machining, the course will emphasize student proficiency in machine operation. Designed to make the student proficient in all phases of automotive and industrial engine rebuilding, including crankshaft grinding, boring, honing, line boring, block and head resurfacing, crack repair, head reconditioning, precision measuring, balancing, and engine assembly. (Spring) (Letter Grade Only)

### **AT 336 Automotive Machining 2**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must take and pass the lab safety test.

Prerequisite: AT 334 - Automotive Machining 1

An advanced course focused on precision and performance engine preparation. Topics to be covered include engine components selection, machining and measurement for maximum engine efficiency and output. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AT 341 Fuel Injection/Turbocharging**

**5.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: AT 303 - Automotive Electricity ; or concurrent enrollment in AT 303; or high school automotive electrical study

This course provides theory and application of automotive fuel supply and fuel injection systems. The course includes basic engine, fuel supply, fuel injection, turbocharging, and computerized engine controls diagnosis and repair. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AT 343 Engine Performance/Diagnosis**

**5.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: AT 341 - Fuel Injection/Turbocharging ; or prior basic engine performance and fuel system training

This course is designed to give students a basic knowledge of engine diagnostic tools, and a working ability to diagnose engine performance problems. The course includes fuel, ignition, computerized engine controls, and emission controls related systems. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AT 344 Emission Control/BAR CAC**

**4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: AT 341 - Fuel Injection/Turbocharging ; and AT 343 - Engine Performance/Diagnosis

This course provides theory and diagnosis of automotive emission control systems. The course includes the BAR (Bureau of Automotive Repair) CAC (Clean Air Car) course preparation and certification. (Spring) (Letter Grade or Pass/No Pass)

### **AT 354 Selected Projects in Automotive Machining**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: AT 336 - Automotive Machining 2 ; ENGL 514 - Writing Skills 4

Limitations on Enrollment: Must take and pass the Lab Safety Test

A project based course with an emphasis on the practice and improvement of automotive machining skills. The approved student project is performed under the direct supervision of the responsible Automotive Technology faculty member. (Letter Grade or Pass/No Pass)

### **AT 370 SkillsUSA**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-

collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, ARCH 370, EL 370, ET 370, MT 370 or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **AT 389 Independent Projects in Automotive Technology**

**1.0 - 3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

AT 389 Independent Projects is for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search or development of skills and competencies under faculty advisement and supervision. Students wishing to enroll in AT 389 Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be issued no later than the end of the second week of the semester. Units are awarded depending upon satisfying performance and the amount of time committed by the students to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit-48 hours per semester 2 units-96 hours per semester 3 units-144 hours per semester (Letter Grade Only)

### **AT 399A Special Topics in Automotive Technology**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: one additional AT course is recommended for enrollment

Designed to prepare trained students/technicians to pass specific Automotive Service Excellence (A.S.E) certification tests and retests. Students will select a minimum of four areas of study from the following speciality areas: Engine repair, Automotive Transmission/Transaxle, Manuel Drive Train and Axles, Suspension and Steering, Brakes, Electrical Systems, Heating and Air Conditioning, Engine Performance, and Damage Repair, Structural Analysis and Damage Repair, Mechanical and Electrical Components, Light Vehicle Compressed Natural Gas, and Parts Specialist. (Fall, Spring, Summer) (Letter Grade Only)

## **Athletic Training**

### **ATH 104 Care and Prevention of Athletic Injuries**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Designed for prospective coaches, athletic trainers, health and physical educators; to aid in the recognition, evaluation and care of athletic injuries. Emphasizes techniques in taping, care, prevention, and rehabilitation of injuries. This course includes one lab hour per week, which is led by the instructor. The lab hour allows students to apply concepts and techniques presented during lecture. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**ATH 106 Orthopedic Injury Assess/Rehab****4.0 units**

Acceptable for credit: Transfer CSU

Advisories: BIOL 124 - Human Anatomy ; ENGL 101 - Freshman

Composition: Exposition

Prerequisite: ATH 104 - Care and Prevention of Athletic Injuries

Designed for prospective kinesiology health professionals, including but not limited to athletic trainers, physical therapy aides, physical therapy assistants, physical therapists, and health and physical educators. The course will focus on the three areas of orthopedic care: theory and implementation of therapeutic modalities to athletic injuries; advanced recognition and assessment of orthopedic injuries; and application of rehabilitation programs for athletic injuries. This course includes three lab hours per week, which are led by the instructor. The lab hour allows students to apply concepts and techniques presented during lecture. (Spring) (Letter Grade or Pass/No Pass)

**Basic Skills (Noncredit)****BASK 7002A CBET: Community Based English Tutoring****96.0 - 90.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

This multi-level English as a Second Language (ESL) course provides practical applications for parent involvement in children's learning and school environment. Topics include home tutoring techniques, creating a home environment conducive to learning, school content by grade level, and locating and utilizing educational resources through technology and community services. (Noncredit )

**BASK 7003A Interdisciplinary Basic Skills: Reading, Writing, and Math****15.0 - 90.0 hours**

Acceptable for credit: N - Noncredit

This class allows students to improve upon basic skills in math, reading, and writing. Material is presented through individual, small group, computer-assisted instruction, and tutoring. Accessible software programs include Rosetta Stone, Aztec, and PLATO.

**BASK 7004A Supervised Tutoring****0.0 hours**

Acceptable for credit: N - Noncredit

This course provides students with class-specific tutorial assistance, study strategies, self-confidence building strategies, and critical thinking skills necessary for success in the classroom. Students seeking a greater understanding of course material benefit from this small-group environment, which is conducive to skill building.

**BASK 7005 High School Equivalency Exam Preparation****96.0 - 108.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to help students prepare for the High School Equivalency Exam such as the GED or HI SET. Students

learn the core knowledge and skills needed to pass each of the High School Equivalency Tests. The content areas covered will be Language Arts--Reading/Writing, Mathematics, Science, and Social Studies. Students will also receive instruction in developing test-taking skills and career and college-readiness skills. (Fall, Spring, Summer) (Noncredit )

**BASK 7006A GED Test Prep: Math Reasoning****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

The course is designed to help students successfully pass the computerized General Educational Development (GED) Mathematical Reasoning Test either in English or Spanish. Students receive instruction in mathematical reasoning skills needed for the test.

**BASK 7007A GED Test Prep: Language Arts****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare students for the Reasoning Through Language Arts portion of the General Educational Development (GED) Test. Students learn reading and writing skills to effectively pass the GED test while developing other skills to help prepare for college and jobs. The class is open entry; however, 8th grade reading level or above is recommended. Students have the opportunity to practice test items for the computerized GED test.

**BASK 7008A Success in College Lab****45.0 - 51.0 hours**

Acceptable for credit: N - Noncredit

This open-entry, open-exit study lab provides high-risk students with general study skills applicable to specific courses. Students receive tutorial assistance, learn study strategies, and receive assistance to support credit class academic success. Although this lab is designed primarily for the student athlete, anyone 18 or over can attend.

**BASK 7009A GED Test Prep: Social Studies****90.0 hours**

Acceptable for credit: N - Noncredit

Learn to read, comprehend, and analyze social studies related text in preparation for the social studies section of the GED test. Topics covered include civics and government, U.S. history, economics, and world geography. Students acquire problem-solving skills in social studies-related contexts while developing core reading skills and a variety of test-taking strategies. (Noncredit )

**BASK 7011A Basic Math****0.0 hours**

Acceptable for credit: N - Noncredit

This open-entry basic math course is designed to help students increase their math skills so they may enroll in credit math classes or complete the math section for the GED Test. Topics covered include multiplication tables, division, subtraction, number operations and number sense, measurement, basic geometry, and sequence.

**BASK 7012 Basic Reading and Writing****96.0 - 108.0 hours**

Acceptable for credit: N - Noncredit

Learn basic reading, writing, and grammar skills; build vocabulary; improve spelling; and increase reading comprehension in this course designed for students who read and write at grade levels below 8th grade. Students learn the reading and writing skills needed to enroll in High School Equivalency Exam Preparation courses: Language Arts, Science, Social Science, and Math. (Noncredit )

### **BASK 7013 High School Equivalency Exam Prep: Computer Skills**

**32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Acquire basic computer skills and become familiar with test-taking tools required for the High School Equivalency Exam such as the GED or Hi SET. Topics covered include directional tools, calculator basics, formula sheet, symbol selector, use of a mouse, word processing skills, keyboarding, short answer, fill-in-the blank, and more. Students learn how to setup online accounts with official test providers and register for tests. (Fall, Spring, Summer) (Noncredit )

### **BASK 7014 Mathematics Lab**

**64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

In this open laboratory setting, students receive one-on-one instruction in specific requested areas and guided practice sessions on varied mathematical topics. This class is designed as a supplementary lab for students who need additional instructional assistance to successfully complete any Allan Hancock College mathematics class.

### **BASK 7015 Reading and Writing Lab**

**64.0 - 128.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 10.00

In this open laboratory setting, students receive one-on-one instruction in specific requested areas of reading and writing. The class is designed as a supplementary lab for students who need additional instructional assistance to successfully complete any reading or writing assignment for an Allan Hancock College class or for a college application. (Noncredit )

## **Biology**

### **BIOL 100 Introductory Biology**

**4.0 units**

Acceptable for credit: Transfer CSU

Advisories: Eligible for ENGL 101 or completion of; ENGL 514 - Writing Skills 4

An introduction to the concepts of biology with emphasis on their relevance to current problems of the world. Designed for majors in fields other than biological science, the course stresses genetics, cell biology, evolution, reproduction, ecology, behavior, and diversity of plants and animals. Lecture: 3 hours weekly. Lab: 3 hours weekly. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BIOL 120 Humans and the Environment**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Explores contemporary problems generated by human scientific, social and ethical interaction with the environment. Lectures examine the scope of present environmental problems, possible future impacts, and potential solutions. Topics include human impact on the environment, ecological controversies, ecosystem operation, water and energy perspectives, and values of wilderness preservation. Emphasis is on both local and global dimensions of the above topics. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BIOL 124 Human Anatomy**

**4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BIOL 110B

Advisories: BIOL 100 - Introductory Biology ; CHEM 120 - Introductory Chemistry ; and ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

An examination of the functional anatomy of the human organism. Lectures and laboratories investigate the microscopic and macroscopic structures of the major organ systems. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BIOL 125 Human Physiology**

**4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BIOL 120B

Advisories: CHEM 120 - Introductory Chemistry  
Prerequisite: ENGL 101 - Freshman Composition: Exposition ; and BIOL 124 - Human Anatomy

A study of the functions and interactions of human cells, tissues, organs, and organ systems. Metabolic processes, negative feedback mechanisms, and homeostatic regulation are investigated in both lecture and laboratory sections. Emphasis is on the interaction of physiological processes responsible for the maintenance of normal body functions. Lecture: 3 hours weekly. Lab 3 hours weekly. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BIOL 128 Microbiology**

**4.5 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: BIOL 100 - Introductory Biology ; or BIOL 124 - Human Anatomy ; or BIOL 125 - Human Physiology ; or BIOL 150 - Cellular Biology ; and CHEM 120 - Introductory Chemistry ; or CHEM 150 - General Chemistry 1

An introduction to microorganisms, including morphology, physiology, and growth of bacteria and other microorganisms such as viruses. The role of bacteria and viruses as part of the human microbiome and host defenses against pathogens are emphasized. Laboratory procedures include identification, growth and metabolism of bacteria. Lecture: 3 hours weekly. Lab: 5 hours weekly. (Fall, Spring) (Letter Grade Only)

### **BIOL 132 Marine Biology**

**4.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 301; or ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

An introductory study of the biotic and physical factors of the marine shore community, with primary emphasis on the flora and fauna



of the Central California coast. Several field trips to the marine shore required. Lecture: 3 hours weekly. Lab: 3 hours weekly. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BIOL 150 Cellular Biology**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BIOL 190

Prerequisite: CHEM 150 - General Chemistry 1

A study of the nature of life, emphasizing its molecular and cellular aspects of life, particularly cellular reactions as governs organismic metabolism, biological and chemical evolution, and Mendelian genetics. Lecture: 3 hours weekly. Lab: 6 hours weekly. (Fall, Spring) (Letter Grade Only)

### **BIOL 154 General Botany**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BIOL 155

Prerequisite: BIOL 100 - Introductory Biology ; or BIOL 150 - Cellular Biology ; and MATH 309 - Algebra and Math Literacy ; or MATH 331 - Algebra 2

A survey of the plant kingdom, including structure and functions, heredity, evolution and ecology, economic uses, taxonomic classification, the role of plants in the ecosystem, and important problems common to all plants. Lecture: 3 hours weekly. Lab 6 hours weekly. (Spring) (Letter Grade or Pass/No Pass)

### **BIOL 155 General Zoology**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BIOL 150

Prerequisite: BIOL 150 - Cellular Biology

Intended for the biology major, an exploration and survey of the animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. Comparative structure, function, and life cycles of animals, as well as principles of evolution, taxonomy, and systematics are covered. Topics include development, morphology and physiology, phylogeny, and behavior of animals, as well as principles of evolution, mechanisms of evolutionary change, and speciation. Lecture: 3 hours weekly. Lab 6 hours weekly. (Spring) (Letter Grade Only)

### **BIOL 179 Experimental Courses in Biology**

#### **0.5 - 3.0 units**

Acceptable for credit:

Formerly known as "Workshops," these are courses designed in specific disciplines to test new curriculum before adopting it as part of an academic program. These courses meet specific needs in the college and community as they are identified. Each class will carry a specific title relating to the discipline concerned. Advanced level experimental course may require academic or equivalent prerequisite or corequisite. Experimental courses labeled 179 are transferable; those labeled 379 are non-transferable. (Letter Grade or Pass/No Pass)

### **BIOL 189 Independent Projects in Biology**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be issued no later than the end of the second week of the semester. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester. (Letter Grade or Pass/No Pass)

### **BIOL 196 Self-directed Investigations**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Enrollment is limited to 8 students per instructor due to safety concerns and the need to demonstrate a progression of knowledge or skills.

Prerequisite: BIOL 189 - Independent Projects in Biology

This course is designed to provide students the opportunity to further investigate a project from a previous semester at a more advanced level and/or pursue investigation of a new topic. (Fall, Spring) (Letter Grade Only)

### **BIOL 199 Special Topics in Biology**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

- (Letter Grade or Pass/No Pass)

### **BIOL 199A Field Biology of the Sierra Nevadas**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 300; or Eligibility for READ 310

An exploration of the plant and animal communities of selected portions of the Sierra Nevadas. When in the field, campsites are set up and maintained by the class. This course is commonly run in conjunction with Geology 199C (Topics in Geology: Sierra NV). Six hours of lecture precede the field trip. (Pass/No Pass)

## **Business**

### **BUS 101 Introduction to Business**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BUS 110

A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices with the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design, leadership, human resource management, organized labor practices, marketing, financial practices, the stock and securities market, and therefore affect a business' ability to achieve its

organizational goals. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 102 Marketing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

The study of marketing channels and institutions; market structure, organizations, behavior, retail, wholesale and industrial marketing; and governmental regulations. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 103 Advertising**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A survey of advertising media; the psychology of advertising; motivational research; formulation of advertising budgets; mechanics of layout and copy; and evaluation and selection of media. (Spring) (Letter Grade or Pass/No Pass)

### **BUS 104 Business Organization and Management**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: BUS 302 - Essentials of Management

A study of the structure of business firms and the principles of organization that determine departmentalization and lines of authority and responsibility. Covers management principles and function, including planning, organization and control within a business firm. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 106 Small Business Management**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: BUS 101 - Introduction to Business

Intended primarily for students who plan to participate in an independently-owned business. Includes study of single proprietorships, partnerships, and corporations at all levels of the American economic system. Not designed as a substitute for Business 101 or Business 103, which serve as introductions to further study in business administration. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BUS 107 Human Relations in Business**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 513

A study of human relations in business including multicultural and gender relationships in the workplace. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 110 Business Law**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BUS 125

Fundamental legal principles pertaining to business transactions. Introduction to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BUS 111 Internet Marketing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A study of methods to create, distribute, promote, and price goods and services to a target market over the Internet. (Letter Grade or Pass/No Pass)

### **BUS 121 Business Economics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to basic economic analysis and institutions. Macroeconomic analysis of income, employment, price level, and international trade. Microeconomic analysis of demand, production, competitive and noncompetitive product markets, and factor markets. Emphasis is placed on the applications of economic theory in the business environment. This course is not open to students who are enrolled in or have received credit for ECON 121. May be taken prior to or concurrently with ECON 101 or ECON 102. (Fall, Spring, Summer) (Letter Grade Only)

### **BUS 130 Consumer & Family Finance**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement, and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit for Economics 130 or Family and Consumer Sciences 130. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 140 Survey of International Business**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to institutions and business practices in the international environment, emphasizing the major motivations compelling private firms to pursue international business. (Fall) (Letter Grade or Pass/No Pass)

### **BUS 141 Global Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ECON 101 - Principles of Macro-Economics ; or Completion of or concurrent enrollment in; ECON 102 - Principles of Micro-Economics ; or ECON 121 - Business Economics ; or BUS 121 - Business Economics

An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange-rate fluctuations, and the determinants of a country's balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international institutions in the global economy, financial crises, global environmental issues, and international debt problems. This course is not open to students who are enrolled in or have received credit for Economics 141 or Global Studies 141. May be taken prior

to or concurrently with Econ 101 or Econ 102, or Econ 121 or Bus 121. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 149 Cooperative Work Experience: Occupational**

#### **1.0 - 8.0 units**

Acceptable for credit: Limited transfer to CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 160 Business Communications**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4 ; and the ability to type 40 words per minute are strongly recommended.

A study of the types of communications used in industry and government with emphasis on the content and practice of creating and writing various types of letters, memorandums, reports, Internet e-mail, multimedia presentations and other types of documents. Spelling, correct word usage, sentence structure, punctuation, appearance of copy and organization of ideas are emphasized. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BUS 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time

committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Fall, Spring, Summer) (Letter Grade Only)

### **BUS 302 Essentials of Management**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of essential management skills including the role of the supervisor, supervisory challenges, and related human resources responsibilities. This course is not open to students who are enrolled in or have received credit for one or more of the Essentials of Management modules or BUS 359 (Essentials of Management). (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BUS 303 Sales And Marketing**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An overview of sales and marketing strategies including pricing, promotion and distribution of goods, services and concepts used to create relationships that satisfy individual and organizational objectives. This course is not open to students who are enrolled in or have received credit for one or more of the "Sales and Marketing: The Series" modules or Business 359 Sales and Marketing. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **BUS 355 Issues in Internet Law**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Review of issues essential to understanding emerging Internet laws. Not open to students who have taken "Business Law: Series". (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 356 Managing Organizations**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A look inside an organization to explore how organizational variables influence human behavior in the work place including: culture, power, job design and decision making. Not open to students who have taken BUS 387. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 357 Management: Listening**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This class focuses on active listening techniques which can increase understanding of instructions, reduce errors/omissions, and build empathetic relationships. Not open to students who have taken BUS 389. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 358 Managing Individuals**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Bring the best "you" to the job. Explore how your personality and attitudes, perceptions and attributions, problem solving styles, stress levels and more affect job behavior and performance. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 360 Introduction to Supervision****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This class is designed to help managers develop supervisory skills needed to successfully manage a business enterprise. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 361 Your Leadership Style****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Students will identify their personal leadership style by taking a variety of conflict, communication, and personality tests. Not open to students who have taken BUS 387. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 362 Management: People Skills****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This class will examine personal and professional habits that enhance a leader's ability to create and sustain a healthy and productive organization. Not open to students who have taken BUS 387 or BUS 389. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 363 Management: Conflict****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This class is designed to help organizational leaders learn how to resolve conflict and manage resistance in the workplace. Not open to students who have taken BUS 389 or BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 364 Winning Business Plans****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course focuses on methods to develop a business plan. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 365 Managing Teams****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to effective strategies for team building in the workplace. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 366 Promoting Small Business****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A course designed to help small business owners promote their business using effective advertising, sales promotion, public relations, and budgeting techniques. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 367 Managing Change****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Learn how organizations can adapt to their respective environments and modify the work behavior of organizational members. Not open to students who have taken BUS 387. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 368 Online Auctions****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of the business methods and advantages of selling and buying using online auctions. Online secured financial transactions will also be covered. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 369 Employment Law****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An overview of employment laws and their impact on organizational policies, procedures, and practices. Not open to students who have taken BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 370 Ethics and Integrity****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An examination of how organizations can shape ethical conduct. Both the managers' and individuals' role in promoting ethical behavior is examined. Not open to students who have taken BUS 389 or BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 371 Sexual Harassment Prevention****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of laws, techniques, tools, and skills needed for prevention of sexual harassment. Not open to students who have taken BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 372 Workplace Diversity****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An examination of the various components of diversity in the workplace, the impacts and benefits of diversity, and the means to avoid diversity-related conflicts in the workplace. Not open to students who have taken BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 373 Forming a Small Business****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of laws, forms, and procedures required to form a small business. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 374 Business Incorporation****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of laws, forms, and procedures required to incorporate a business. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 375 Patents and Copyrights****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of laws, forms, and procedures required for establishing and protecting patents and copyrights. (Fall, Spring, Summer) (Pass/No Pass)

**BUS 376 Strategic Planning****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
An examination of techniques, tools, and skills needed for developing and leading the strategic planning process. Not open to students who have taken BUS 387. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 377 Managing Service Quality**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
An overview of the functions of quality customer service and their affect on the customer satisfaction process. Not open to students who have taken BUS 389. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 378 Effective Sales Methods**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
An overview of the selling process and successful persuasive marketing communication methods including sales presentations and closes. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 380 Marketing Strategies**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Learn how to develop winning marketing plans including strategies for product, brand, channel, communications, and pricing. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 381 Entering Global Markets**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Learn the essentials required to enter global markets including details on sales channels, financing, cultural, legal, and economic factors. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 382 Advertising & Public Relations Strategies**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Introduces integrated marketing communications strategies for developing productive advertising and maintaining positive public relations. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 386 Business Resume Writing**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
This course will help students learn how to create and maintain a professional resume and cover letter. Students will apply resume writing techniques to develop an effective personal resume. The course will also assist job seekers in preparing to interview with prospective employers. (Spring, Summer) (Pass/No Pass)

### **BUS 387 Executive Leadership: Series**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Review of skills/knowledge essential to business/non-profit executives. Not open to students who have taken any of the following business courses: BUS 397, BUS 361, BUS 376, BUS 356, BUS 367, BUS 362. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 389 Customer Service: Series**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
A review of skills/knowledge essential to those working in customer service. Not open to students who have taken any of the following Business courses: BUS 377, BUS 394, BUS 357, BUS 363, BUS 362, BUS 370. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 390 Business Entrepreneurship Law**

**3.0 units**

Acceptable for credit:  
A review of skills and knowledge essential to applying business law to entrepreneurship. (Letter Grade or Pass/No Pass)

### **BUS 391 Human Resources Mgt: Series**

**3.0 units**

Acceptable for credit:  
A review of skills/knowledge essential to Human Resource Managers. Not open to students who have taken any of the following business courses: BUS 369, BUS 371, BUS 372, BUS 396, BUS 370, BUS 363. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **BUS 392 Performance Evaluation**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
A review of techniques, tools, and skills needed for effective employee performance evaluation. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 393 Business Report Writing**

**0.5 units**

Acceptable for credit:  
A review of effective written business communication techniques, including proper report writing, employee evaluations, and memos. Includes a review of punctuation, grammar, style, and clarity. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 394 Managing Verbal Communication**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
This class is designed to help leaders improve their verbal communication skills. Students will learn how to improve the design and transmittal of their messages. Not open to students who have taken BUS 389. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 396 Performance Measurement**

**0.5 units**

Acceptable for credit:  
Learn to design and utilize recurring performance measurements tied to budgetary program cost centers. Not open to students who have taken BUS 391. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 397 Executive Leadership**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
The real worth of an organization's values come from what is practiced rather than merely professed. This highly interactive



class prepares organizational leaders to turn their good intentions into action and build staff communication and team building. Not open to students who have taken BUS 387. (Fall, Spring, Summer) (Pass/No Pass)

### **BUS 398 Efficient Meetings**

#### **0.5 units**

Acceptable for credit:

A review of techniques that lead to efficient and effective meetings. Ways to foster participation, decision making, and action are highlighted. (Fall, Spring, Summer) (Pass/No Pass)

## **Culinary Arts**

### **CA 118 Beverage Management**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

A study of managing bar and beverage service for profit. Types of beverages (including mixology), equipment, sanitary operations, staffing, promotions, purchasing, storage, inventory, and pricing strategies are discussed. (Fall) (Letter Grade or Pass/No Pass)

### **CA 119 Introduction to the Hospitality Industry**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

An overview of the hospitality industry with an emphasis on career perspectives and wages. Topics include the restaurant business, operations and industry organization; issues in food service management; and lodging operations, the hotel business, and the role of service in all sectors. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CA 120 Principles of Foods 1**

#### **4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: NUTR 120

Advisories: MATH 521 - Foundations of Mathematics

Provides knowledge and experience in food preparation terminology, equipment, and techniques to increase proficiency, coupled with investigation of the science principles involved. Emphasis is on ingredient functions and interactions; production and sensory evaluation standards; food safety and sanitation; nutrient composition; and food aesthetics and presentation. Content includes recipe and menu development, stocks, sauces, meat, poultry, fish and shellfish. This course is not open to students who have received credit for FCS 120. (Fall, Spring) (Letter Grade Only)

### **CA 121 Basic Baking and Pastry**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: MATH 521 - Foundations of Mathematics

The study of equipment, skills and procedures used in commercial bakeries. Includes practical application in the production of a wide variety of quick and yeast breads and cookies. (Fall) (Letter Grade or Pass/No Pass)

### **CA 122 Advanced Baking and Pastry**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CA 121 - Basic Baking and Pastry

Designed to increase the student's proficiency in baking and pastry techniques with a focus on artistry and practical skills. Explores classical and modern applications of pastries, meringues, tarts, syrups, creams, sauces, pies, fillings, fruit desserts, and plating. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CA 123 Principles of Foods 2**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CA 120 - Principles of Foods 1 ; or FCS 120 -

Principles of Foods 1

Provides knowledge and experience in food preparation terminology, equipment, and techniques. Emphasis is on scientific principles, ingredient functions and interactions, production and sensory evaluation standards, food safety and sanitation, nutrient values, food aesthetics, and presentation of vegetables, starches and grains, salads and dressing, sandwiches, hor d'oeuvres, Grande Manger, breakfast foods, bakeshop, and international cuisine. This course is not open to students who are enrolled in or have received credit for FCS 123. (F) (Fall) (Letter Grade or Pass/No Pass)

### **CA 124 Sanitation, Safety, and Equipment**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An overview of basic concepts of personal and institutional sanitation and safety as applied to food service with special emphasis on the role of the food supervisor/manager in maintaining sound practices. The course also covers the concepts of sanitation and safety as related to the selection, layout, and use of equipment and examines current recommended practices including local, state, and federal regulations. (Spring) (Letter Grade or Pass/No Pass)

### **CA 125 Supervision and Training Techniques**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A study of food service operations, procedures, and problems encountered in the development of personnel programs and desirable labor management relationships. Topics include selection, placement, orientation, training, counseling, rating, and promotion of employees. (Fall) (Letter Grade or Pass/No Pass)

### **CA 126 Food Production Cost, Control and Management**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: MATH 521 - Foundations of Mathematics

A study of quantity food preparation with emphasis on food, beverage and labor cost control management in purchasing, receiving, storing, issuing, and producing food products. Principles and procedures for the management of institutional, restaurant, and catering food service settings are examined. (Letter Grade or Pass/No Pass)

**CA 129 Catering and Events Management****3.0 units**

Acceptable for credit: Transfer CSU

Prepares students for self-employment or working within the hotel/restaurant industry. Includes the research, design, planning, coordination, and evaluation of events. Major emphasis is on managing catered events including menu development, organization, cost accounting, service, rentals, scheduling, staffing, contracts, legal requirements, marketing, and client relations. (Spring) (Letter Grade or Pass/No Pass)

**CA 323 Specialty and Wedding Cakes****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CA 120 - Principles of Foods 1 ; or FCS 120 - Principles of Foods 1

A study of cake making including mixing, baking, assembling, filling and frosting with American layer, European style, and wedding cake assembly. Client relations and business practices for wedding cake sales is covered. (Spring, Summer) (Letter Grade or Pass/No Pass)

**CA 324 Cake Decorating and Decorative Work****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CA 120 - Principles of Foods 1 ; or FCS 120 - Principles of Foods 1

Instruction in cake decorating techniques including assembling and icing cakes and pastry bag work for borders, lace, string work, writing, and flowers. Cake design, colors, construction, evaluation, and decorations of marzipan, pastillage, and nougatine will be covered. (F) (Letter Grade or Pass/No Pass)

**Computer Business Information Systems****CBIS 101 Computer Concepts & Applications****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: BUS 140

Advisories: CBOT 100 - Keyboarding ; CBIS 301 - Computer Fundamentals 1

The focus of this course is to provide the students with computer concepts and management information systems concepts as used with business computing. Additionally, the course covers changes in technology that affect how computers are used in business. The course includes hands-on experience using software applications such as Internet browsers, word processing, spreadsheets, databases, and presentation software. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**CBIS 108 Networking and Administration****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBIS 301 - Computer Fundamentals 1

Prepares students to work as network administrators or server managers emphasizing installation and maintenance of a Windows networking environment. Also provides preparation for the Windows certification exam. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 112 Intro to Visual Basic Program****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBIS 301 - Computer Fundamentals 1 ; or CBIS 101 - Computer Concepts & Applications ; or CS 102 - Introduction to Computing with HTML

An introduction to Visual Basic Net programming language for the Windows environment. Learn to create forms, add controls, and develop code for Windows, Mobile, Web, and database application programs. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 141 Microsoft Excel-Comprehensive****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBIS 101 - Computer Concepts & Applications ; or CBIS 371 - Intro to Excel ; or CS 102 - Introduction to Computing with HTML

Manage and analyze information using spreadsheets for more informed decisions. Some skills covered are applying formatting, creating calculations, using functions, creating Pivot Tables and Pivot Charts, developing macros, sharing data, and writing VBA code. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 142 Microsoft Access-Comprehensive****3.0 units**

Acceptable for credit: Non-Transferable

Advisories: CBIS 101 - Computer Concepts & Applications ; or CBIS 372 - Intro to Access ; or CS 102 - Introduction to Computing with HTML

Learn techniques to solve business problems and develop business decision-making processes using a database program. Some skills covered are developing and maintaining tables, relationships, queries, forms, reports, macros, and code modules. Learn Microsoft Access. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 189 Independent Projects****1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**CBIS 301 Computer Fundamentals 1****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBOT 100 - Keyboarding

A basic course for computer novices to learn how to operate a computer and use common software such as the Windows operating system and an Internet browser. Also covers the use of common hardware devices such as a mouse, keyboard and printer. Learn Windows operating system. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 321 Internet Business Applications****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBIS 301 - Computer Fundamentals 1 or equivalent skills

Development of fundamental competency in Internet business applications. Explores a comprehensive range of skills from the basic uses of Internet browsers, search engines, and e-mail to file transfer protocol, file compression, and bookmark management. Includes the use of editing software to create interactive business Web sites, searching for and registering domain names, and analyzing business web sites. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 327 Building Business Web Sites****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBIS 301 - Computer Fundamentals 1 or equivalent

An introductory to advanced course on business website development that consists of website design, accessibility, usability, and troubleshooting. Presents skills necessary to create professional-looking business Web pages using images, tables, tags, cascading style sheets, forms, libraries, behaviors and timelines. Includes uploading and maintaining pages on an Internet server site. Learn Macromedia Dreamweaver. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 337 Presentation Design - PowerPoint****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: or knowledge of Windows

An introduction to computer-based business presentations and their development using PowerPoint. This course is not open to students who are enrolled in or have received credit for CBOT 337. (Fall, Spring) (Letter Grade or Pass/No Pass)

**CBIS 350 Information Systems Applications Lab****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: CBIS 142 - Microsoft Access-Comprehensive ; or CBIS 371 - Intro to Excel ; or CBIS 372 - Intro to Access

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

**CBIS 351 Info Systems Lab****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: CBIS 108 - Networking and Administration ; or CBIS 112 - Intro to Visual Basic Program ; or CBIS 301 - Computer Fundamentals 1

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

**CBIS 352 Info Systems Office Lab****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: CBIS 101 - Computer Concepts & Applications

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

**CBIS 371 Intro to Excel****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Provides the students with an introduction to the use of Microsoft Excel. This course covers fundamentals of spreadsheet design; data entry, use of formulas and operators, charting information and printing worksheets and graphs. (Fall, Spring, Summer) (Pass/No Pass)

**CBIS 372 Intro to Access****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Provides the student with an introduction to the use of a database management program. Learn Microsoft Access. (Fall, Spring, Summer) (Pass/No Pass)

**CBIS 381 Introduction to Mac OS****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Provides the students with an introduction to the use of the Mac operating system. Course covers fundamentals of Mac OS; managing the desktop; managing files and folders; personalizing and customizing your computer; and using system applications. (Fall, Spring, Summer) (Pass/No Pass)

**CBIS 382 Office Apps for the Mac****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBIS 381 - Introduction to Mac OS

An introduction to Microsoft Office applications using a Mac computer. Word, Excel and PowerPoint (Fall, Spring, Summer) (Pass/No Pass)

**CBIS 399 Special Topics in Computer Business Information Systems****0.5 - 3.0 units**

Acceptable for credit:

- (Letter Grade or Pass/No Pass)

**Computer Business Office Technology****CBOT 100 Keyboarding****1.0 unit**

Acceptable for credit: Transfer CSU

Elementary keyboarding by touch techniques for those who need to develop keyboarding and keypad skills necessary for using computer keyboards. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **CBOT 131 Introduction to Word Processing**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBOT 100 - Keyboarding

An introduction to word processing designed to develop skills in formatting and editing documents. Topics include setting tabs, creating headers and footers, inserting tables, creating newsletters, applying styles, using templates and printing envelopes and labels. Time saving tips and techniques will also be discussed. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **CBOT 132 Advanced Word Processing**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBOT 131 - Introduction to Word Processing

An advanced word processing experience designed to develop industry proficiency in the skills required for processing information in today's electronic office. Includes inserting graphics and WordArt to create flyers and newsletters, creating online forms, inserting a table of contents and index for reports and books, creating hyperlinks, bookmarks, and cross-references, completing a mail merge, recording macros and saving documents using different file formats. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CBOT 189 Independent Projects**

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **CBOT 302 Records Management**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A comprehensive course in the principles and practices of records management. The course covers the rules of indexing and alphabetizing and various records management systems including

geographic, numeric, subject, microfilming and magnetic-disc and tape storage plus the organization and operation of records management programs. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CBOT 305 Legal Office Procedures**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A course in law office secretarial procedures and terminology, covering the field of general civil procedure, unlawful detainer (landlord/tenant), adoption law, family law (dissolution), probate law, corporate law, and miscellaneous non-court documents, such as deeds and notes. (Fall) (Letter Grade or Pass/No Pass)

### **CBOT 312 Keyboarding Speed and Development**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBOT 100 - Keyboarding

Designed to follow the formal computerized keyboarding courses in order to bring up students' speed and accuracy by the touch method before they enter the job market. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **CBOT 333 Business Desktop Publishing**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Basics of desktop and Internet publishing for business documents. Topics include page layouts using columns and grids, adding multimedia elements, incorporating color, and publishing techniques. (Spring) (Letter Grade or Pass/No Pass)

### **CBOT 334 Administrative Office Procedures**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: CBOT 131 - Introduction to Word Processing

This course focuses on both the computerized and non-computerized administrative tasks performed by secretaries and administrative assistants in today's electronic office. Topics include effective communication in the workplace, records management, customer service and teamwork. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CBOT 337 Presentation Design - PowerPoint**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to computer-based business presentations and their development using PowerPoint. Topics include creating dynamic, non-linear presentations with animation, designing colorful handouts, installing and using templates, inserting sound, action buttons, video and creating slide masters. Time saving tips and techniques will also be discussed. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CBOT 350 Office Tech Procedures Lab**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: CBOT 131 - Introduction to Word Processing ; or

CBOT 334 - Administrative Office Procedures ; or CBOT 360 -

Word - Basics ; or CBOT 361 - Intro to PowerPoint

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learn in the corequisite course. (Fall, Spring) (Pass/No Pass)

### **CBOT 351 Office Tech Software Lab**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Corequisite: CBOT 132 - Advanced Word Processing ; or CBOT 333 - Business Desktop Publishing ; or CBOT 337 - Presentation Design - PowerPoint ; or CBIS 337 - Presentation Design - PowerPoint

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

### **CBOT 360 Word - Basics**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
An introductory course in the basics of word processing. Learn to create letters, memos, reports, tables and flyers using word processing software. (Fall, Spring, Summer) (Pass/No Pass)

### **CBOT 361 Intro to PowerPoint**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
An introductory course in using presentation design software. Students will learn how to create dynamic presentations, with animation, transitions and graphics. Students will also learn how to use templates and modify design themes. (Fall, Spring, Summer) (Pass/No Pass)

## **Computer Electronics**

### **CEL 104 Introduction to Robotics and Mechatronics**

**3.0 units**

Acceptable for credit: Transfer CSU  
An introduction to robotic control applications. Basic electronics including digital, analog, and microcontroller devices, sensors and transducers, and actuators will be emphasized for automation control. Topics include Basic, Assembly and C language programming for robotic control; interfacing of indicators, switches, sensors and transducers; controlling motion and motors; monitoring and measurement of rotation; measuring light, temperature and conductance; application of navigation and measurement techniques; remote control applications; mechanical systems; and the control of frequency and sound. This course is not open to students who are enrolled in or have received credit for EL 104 or ET 104. (Fall, Spring) (Letter Grade Only)

### **CEL 128 Introduction to Renewable Energy**

**3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics or EL 104 or ET 104  
A study of the principles behind energy generation and conversion that can be applied to modern electrical, mechanical, and chemical devices that use or produce power. Special emphasis will be given to the study of electricity as a renewable energy source. This

course is not open to students who are enrolled in or have received credit for EL 128 or ET 128. (Letter Grade Only)

### **CEL 131 Programmable Logic Controllers and Control Design**

**3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: EL 125 - Digital Devices and Circuits  
A study of the purpose and operating features of a programmable logic controller (PLC). Topics include PLC terminology, architecture, input/output modules, memory, commands for internal relays, on/off timers, up/down counters, use of subroutines, program control, and math instructions. Relay schematics, ladder logic diagrams, and programming of logic controllers are emphasized. Sensing devices and time-driven process sequences will be studied and integrated into control systems. This course is not open to students who are enrolled in or have received credit for EL 131 or ET 131. (Letter Grade Only)

### **CEL 133 Mechatronic Systems 1**

**3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics ; or EL 104 - Introduction to Robotics and Mechatronics ; or ET 104 - Introduction to Robotics and Mechatronics

This is a hands-on mechatronic systems course that focuses on the electromechanical concepts (mechanics, electronic, and programming) of automated systems. Emphasis is placed on how industrial grade sensors and transducers function and upon how they are interfaced into control systems. Study topics include: transducers and sensors for light, heat, motion, pressure, and position control; switching devices; input and output signal conditioning; continuous, closed-loop, and proportional integral derivative process control; and safety. This course is not open to students who have received credit for, or are enrolled in ET 133 or EL 133. (Letter Grade Only)

### **CEL 139 Electrical Power, Motors, and Controls**

**3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: EL 122 - Electronic Devices and Circuits ; and EL 125 - Digital Devices and Circuits  
A study of electronics, signal communication and power technology that support efficient manufacturing processes for various industries. Topics include motors, their drives and controls, power electronics, PLCs, and communications networks used to monitor industrial processes. This course is not open to students who are enrolled in or have received credit for EL 139 or ET 139. (Letter Grade Only)

### **CEL 162 Fluid Power and Control**

**2.0 units**

Acceptable for credit: Transfer CSU  
An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is



not open to students who are enrolled in or have received credit for EL 162 or ET 162. (Letter Grade Only)

## Chemistry

### **CHEM 110 Chemistry and Society**

#### **4.0 units**

Acceptable for credit: Transfer CSU

An introduction to the fundamentals of chemistry including the composition of matter, energy, and chemical reactions and their application to everyday living. Applications of chemistry in the areas of medicine, nuclear power, plastics, household products and society's effect on the environment will be emphasized. Intended for non-science majors. Not open to students who are enrolled in or have completed Chemistry 100, 105, or Chemistry 120. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CHEM 120 Introductory Chemistry**

#### **4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: CHEM 101

Prerequisite: MATH 311 - Algebra 1 ; or MATH 313 and MATH 314

An introductory course emphasizing the principles and practices of chemistry for the student having no prior background in chemistry. Not open to students currently enrolled in or who have received credit for CHEM 100. Lecture 3 hours weekly. Lab : 3 hours weekly. (Fall, Spring, Summer) (Letter Grade Only)

### **CHEM 140 Introductory Organic Chemistry**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: CHEM 120 - Introductory Chemistry

An introductory study of the compounds of carbon, including both aliphatics and aromatics. Laboratory work consists of synthesis and reactions of representative compounds. Consideration is given to the simple aspects of organic analysis and to a thorough introduction to reaction mechanisms. The course is generally required of pre-medical, pre-dental, and biology majors. Lecture: 3 hours weekly. Lab: 3 hours weekly. (Spring) (Letter Grade or Pass/No Pass)

### **CHEM 150 General Chemistry 1**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: CHEM 110, CHEM 120S

Prerequisite: CHEM 120 - Introductory Chemistry or equivalent; and MATH 331 - Algebra 2 or equivalent

A study of the principles and theories of chemistry. Topics include the kinetic molecular theory of matter, atomic structure and the periodic table, chemical bonding, gases and stoichiometry. Experiments in standard qualitative and quantitative analysis emphasizing the collection and interpretation of data are covered in the lab. Lecture: 3 hours weekly. Lab: 6 hours weekly. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CHEM 151 General Chemistry 2**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: CHEM 120S

Prerequisite: CHEM 150 - General Chemistry 1

A continuation of Chemistry 150, emphasizing the development of the principles and theories of chemical equilibria, chemical kinetics, thermodynamics and electro-chemistry, including an introduction to modern means of instrumental analysis. The laboratory consists of experiments in standard qualitative and quantitative analysis. Lecture: 3 hours weekly. Lab: 6 hours weekly. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **CHEM 180 Organic Chemistry I**

#### **5.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: CHEM 150 and 160S

Prerequisite: CHEM 151 - General Chemistry 2

CHEM 180 focuses on organic compounds and current methods used in the laboratory to synthesize, analyze, and purify. This course discusses physical properties, reactivity, structure, and synthesis of organic compounds and their derivatives during lecture three hours a week. Each week, there are six hours of laboratory time in which gas-chromatography (GC), infrared radiation (IR), and nuclear magnetic resonance (NMR) spectroscopic methods are used to analyze while crystallization, extraction, sublimation, and multiple methods of distillation will be used to purify the various compounds synthesized throughout the experiments. This course is designed for biochemistry, chemistry, chemical engineering, medical, pharmacy, and other majors that require a more intensive course than CHEM 140 when transferring to a four-year institution, or preparing for entrance examinations in the fields of dentistry, medicine, or pharmacy. Total 54 hours lecture, 108 hours laboratory. (Letter Grade Only)

### **CHEM 181 Organic Chemistry II**

#### **5.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: CHEM 160S

Prerequisite: CHEM 180 - Organic Chemistry I

CHEM 181 continues to focus on derivatives of organic compounds and current methods used in the laboratory to synthesize, analyze, and purify. This course discusses physical properties, reactivity, structure, and synthesis of organic compounds and even more derivatives during lecture three hours a week. Each week, there are six hours of laboratory time in which gas chromatography (GC), infrared radiation (IR), and nuclear magnetic resonance (NMR) spectroscopic methods are used to analyze while crystallization, extraction, sublimation, and multiple methods of distillation will be used to purify the various compounds synthesized throughout the experiments. This course is designed for biochemistry, chemistry, chemical engineering, medical, pharmacy, and other majors that require a more intensive course than CHEM 140 when transferring to a four-year institution, or preparing for entrance examinations in the fields of dentistry, medicine, or pharmacy. Total 54 hours lecture, 108 hours laboratory. (Letter Grade Only)

### **CHEM 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer to UC, CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the



regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## Citizenship (Noncredit)

### CITZ 7000A Preparation for Citizenship

**15.0 - 90.0 hours**

Acceptable for credit: N - Noncredit

Students learn about the Constitution, government, history, and geography of the United States in preparation for the United States Citizenship and Immigration Services (USCIS) required oral interview and exam. The class also familiarizes students with requirements and exclusions for citizenship.

## Cosmetology

### COS 301 Intro to Cosmetology

**5.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: Levels of placement on the START test are required; READ 510 - Improving Reading Comprehension or higher; ENGL 512 - Writing Skills 2 or higher; MATH 531 - Pre-Algebra

An overview of the field of cosmetology with extensive practice in introductory hair, skin and nail care techniques. The course covers the practices of beauty salon operation, good customer and public relations, and analysis of the Cosmetology Act and State Board Rules and Regulations. (Letter Grade Only)

### COS 302 Beginning Cosmetology

**9.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: COS 301 - Intro to Cosmetology with grade of C or higher

Provides students with basic laboratory and salon experience in the field of cosmetology and related sciences. Includes theories and practices in hair styling, permanent waving, chemical straightening, haircutting, hair coloring and bleaching, scalp and hair treatments, facials, eyebrow arching and hair removal, makeup, manicuring and pedicuring. Students are required by the State Board of Cosmetology to complete COS 301, 302, 303, and 304 for a total of 1600 hours in order to qualify to take the licensure

examination and become eligible to practice as a cosmetologist. (Letter Grade Only)

### COS 303 Intermediate Cosmetology

**9.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: COS 302 - Beginning Cosmetology

Provides students with intermediate laboratory and salon experience in the field of cosmetology and related sciences. Includes theories and practices in hair styling, permanent waving, chemical straightening, haircutting, hair coloring and bleaching, scalp and hair treatments, facials, eyebrow arching and hair removal, makeup manicuring and pedicuring. Students are required by the State Board of Cosmetology to complete COS 301, 302, 303, and 304 for a total of 1600 hours in order to qualify to take the licensure examination and become eligible to practice as a cosmetologist. (Fall, Spring) (Letter Grade Only)

### COS 304 Advanced Cosmetology

**9.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: COS 303 - Intermediate Cosmetology

Provides students with advanced laboratory and salon experience in the field of cosmetology and related sciences. Includes theories and practices in hair styling, permanent waving, chemical straightening, hair cutting, hair coloring and bleaching, scalp and hair treatments, facials, eyebrow arching and hair removal, makeup, manicuring and pedicuring. Students are required by the State Board of Cosmetology to complete COS 301, 302, 303, and 304 for a total of 1600 hours in order to qualify to take the licensure examination and become eligible to practice as a cosmetologist. (Fall, Spring) (Letter Grade Only)

### COS 310 Manicuring

**9.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: Levels of placement are required on the START test; READ 110 - Introduction to Critical Reading or higher ;

ENGL 512 - Writing Skills 2 or higher ; MATH 531 - Pre-Algebra  
Designed to prepare the student to take the state board examination required to obtain a license as a manicurist/pedicurist. Includes the study of anatomy, sanitation and sterilization, and safety precautions as applied to manicuring and pedicuring operations. Students will develop knowledge and skills in water and oil manicuring, hand and arm massage, complete pedicure procedures, massage, and nail analysis. (Letter Grade Only)

## Computer Science

### CS 102 Introduction to Computing with HTML

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: CBOT 100 - Keyboarding

A general education course dealing with how computers work, how they are used and their effects on society. Includes an introduction to web-page design using HTML. (Fall, Spring) (Letter Grade Only)

### CS 111 Fundamentals of Programming 1

**4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMP 122

Advisories: CS 102 - Introduction to Computing with HTML

Prerequisite: MATH 331 - Algebra 2

Basic principles of algorithmic problem solving and programming using methods of top-down design, stepwise refinement and procedural abstraction. Basic control structures, data types, and input/output. Introduction to the software development process: design, implementation, testing and documentation. The syntax and semantics of a modern programming language. (Summer) (Letter Grade Only)

## **CS 112 Fundamentals of Programming 2**

**4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMP 132

Prerequisite: CS 111 - Fundamentals of Programming 1

Design, implementation, and testing of object-oriented software. Introduction to classes, objects, encapsulation, interfaces, inheritance, polymorphism, algorithms (sort, search, recursion), abstract data types (list, stacks, queues, trees), data structures, pointers, dynamic allocation, traversal using iterators, file I/O, and exceptions. Students will develop applications using class hierarchies and abstract data types. (Fall) (Letter Grade Only)

## **CS 131 Computer Organization**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMP 142

Prerequisite: CS 111 - Fundamentals of Programming 1

Introduction to computer architecture and assembly language programming. Topics include data representation and conversion, assembly language programming, digital design, and basic processor architecture. (Fall, Spring) (Letter Grade Only)

## **CS 161 Discrete Structures**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMP 152

Prerequisite: CS 111 - Fundamentals of Programming 1

An introduction to the discrete structures of computing, including propositional and predicate logic, methods of proof, functions, computer arithmetic, algorithm complexity, recursion, graphs, trees, sets and relations, networks, induction, and combinatorics. (Fall, Spring) (Letter Grade Only)

## **CS 181 Game Programming**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: CS 112 - Fundamentals of Programming 2

Prerequisite: CS 111 - Fundamentals of Programming 1

Elements of games, including theme, game play, and presentation. Basic concepts of programming and how programs control the display of graphics and animation in computer games. The use of sound and artificial intelligence in computer games. Demonstrations and experiments with game programming through the use of examples. (Fall, Spring) (Letter Grade Only)

## **CS 189 Independent Projects**

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

## **Cooperative Work Experience**

### **CWE 149 Cooperative Work Experience**

#### **OCCUPATIONAL**

**1.0 - 8.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. NUMBER OF TIMES COURSE CAN BE REPEATED: Students enrolled in CWE 149 may earn up to 8 units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience course will be included in the 16 unit maximum. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. Cooperative Work Experience: Occupational is available in the following majors: (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **CWE 302 Cooperative Work Experience General**

**1.0 - 6.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Students enrolled in CWE 302 may earn up to 6 units of credit per semester not to exceed 16 units in total. Any units earned in any other cooperative work experience will be included in the 16 unit maximum.

Supervised employment extending classroom-based learning to an on-the-job learning environment not directly related to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. Students enrolled in CWE 302 may earn up to 6 units of credit per semester not to exceed 16 units in total. Any units earned in any other cooperative work experience will be included in the 16 unit maximum. The following formula is used to determine the number of units to be awarded in cooperative work experience courses: each 60 hours of unpaid work equals 1 unit; each 75 hours of paid work equals 1 unit. CWE Units Unpaid Placement: 1 unit = 60 hours; 2 units = 120 hours; 3 units = 180 hours; 4 units = 240 hours; 5 units = 300 hours; 6 units = 360 hours. CWE Units Paid Placement: 1 unit = 75 hours; 2 units = 150 hours; 3 units = 225 hours; 4 units = 300 hours; 5 units = 375 hours; 6 units = 450 hours. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Dental Assisting

### DA 310 Exploring Career Opportunities

#### 1.0 unit

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to Dental Assisting program

An exploration of dental health career options. Provides information that enables students to make informed decisions about future career pathways. (Fall, Spring, Summer) (Pass/No Pass)

### DA 314 Introduction to Bio-Dental Science

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 100 - Writing in Career/Tech Fields ; or ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Admittance to Dental Assisting program

The course presents basic terminology related to human anatomy and physiology with emphasis on head and neck anatomy. It introduces the bio-dental sciences: dental nomenclature, embryology, histology, morphology, pathology, microbiology, pharmacology, nutrition and preventive dentistry. (Fall) (Letter Grade Only)

### DA 317 Dental Assisting Theory

#### 7.0 units

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 100 - Writing in Career/Tech Fields ; or ENGL 101 - Freshman Composition: Exposition

Limitations on Enrollment: Admittance to Dental Assisting Program

The course prepares the student to provide patient care with emphasis on diagnostic, restorative, and specialty branches of dentistry. Topics include infection control, management of hazardous materials, emergency medical procedures, and management of pain and anxiety. It focuses on the dental assisting theory. (Fall) (Letter Grade Only)

### DA 318 Basic Dental Assisting Skills

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 100 - Writing in Career/Tech Fields ; or ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Admittance to Dental Assisting program

The course prepares the student to provide patient care with emphasis on diagnostic, restorative, and specialty branches of dentistry. Topics include infection control, management of hazardous materials, emergency medical procedures, and management of pain and anxiety. It focuses on dental assistant skills. (Fall) (Letter Grade Only)

### DA 319 DA Administrative Skills

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 100 - Writing in Career/Tech Fields ; or ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Admittance to Dental Assistance Program

This course includes emphasis on professional licensing requirements. Business skills are reviewed and developed for practical application in the office. Skills include clinical charting systems, treatment planning, communication skills as they relate to patient management, inventory management, appointment book management, patient recall systems, and other related administrative duties. Employment strategies are discussed. Dental software is utilized. (Fall) (Letter Grade Only)

### DA 320 DA Practicum in the Community

#### 1.0 unit

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting program

The course provides supervised learning experiences in the various applications of dental assisting skills in the community and public health settings. The student would participate in dental screenings, provide oral hygiene instruction, and apply fluoride varnish on children and migrant families in the community. (Fall) (Letter Grade Only)

### DA 325 Clinical Dental Procedures

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to Dental Assisting program

The course focuses on intra-oral procedures including temporary crowns, temporary restorations, as well as clinical procedures performed by Registered Dental Assistants. Emphasis is also given to the California State Board testing requirements. (Spring) (Letter Grade Only)

### **DA 326 Dental Radiography**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to Dental Assisting program

This course covers the principles and procedures related to dental radiography and digital imaging. Topics include history, radiation physics and biological effects, protection procedures and safety guidelines. It includes film identification, processing, mounting, and evaluation. Laboratory exposures on manikin cover intra-oral techniques for periapical and bitewing films using various techniques and film-holding devices. Clinical exposures of patients are completed with authorization of a licensed dentist, evaluated by faculty, and utilized by the dentist for diagnostic purposes. A State Dental Board certificate will be issued upon successful completion of the course. (Spring) (Letter Grade Only)

### **DA 327 Dental Screening**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to Dental Assisting program

This course provides clinical experiences in dental screening skills. Emphasis is on performing four-handed chair-side dental assisting, identifying, and recording patient clinical findings of intra-oral and extra-oral dental examinations. Eligible patients would be provided with the opportunity to schedule subsequent dental appointments in radiography, coronal polish, and pit and fissure sealant clinics. (Spring) (Letter Grade Only)

### **DA 328 Pit and Fissure Sealants**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting Program

The course provides theory and clinical applications of resin materials, pit and fissure sealants, on developing teeth to prevent cavities. (Spring) (Letter Grade Only)

### **DA 329 Dental Assisting Practicum**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting Program

This course provides supervised learning experiences in the various applications of dental assisting skills. (Spring) (Letter Grade Only)

### **DA 330 Coronal Polish**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting Program

This course meets the requirements of the California Board of Dentistry. It includes techniques for removal of pellicle, plaque, and extrinsic stain from the clinical crown. Students will be evaluated on adherence to sterilization and infection control policies and procedures as well as actual provision of care on three dental patients. (Spring) (Letter Grade Only)

### **DA 332 RDA Law and Ethics**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting Program

The course prepares students to take the California Dental Board law and ethics examination. It covers the licensure requirements, scope of practice of the registered dental assistant, revocation of license, and ethical standards of practice. (Spring) (Letter Grade Only)

### **DA 333 Success in Dental Assisting Practice**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
This course prepares students for the challenges facing the Registered Dental Assistant (RDA) in a general practice. It refreshes the fundamentals of practices and provides opportunities to perform the functions and procedures within the scope of practice. It is designed for students who have completed a dental assisting program. It is scheduled for 5 days. (Letter Grade or Pass/No Pass)

### **DA 348 RDA - Success Seminar**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Successful completion of second semester dental assisting program courses.; Admittance to Dental Assisting program  
The course is designed to prepare students for the written components of the State Board examination. The California State Practice Act will be reviewed. (Spring) (Letter Grade Only)

### **DA 380 Dental Assisting Skills Lab**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the Dental Assisting program

This is an open-entry laboratory course designed to provide students with the opportunity to refine and expand skills learned in the corequisite program. Students may repeat the course as they progress through the program. (Fall, Spring) (Letter Grade Only)

## **Dance**

### **DANC 101 Dance Appreciation**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
An overview of the development of dance as an art form from its historical roots to contemporary trends, examining diversity of people, cultures, and events. (Fall) (Letter Grade or Pass/No Pass)

**DANC 110 Beginning Modern Dance****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4

The study and execution of fundamental modern dance techniques including movement skills and the basic rhythmic structure of dance. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 111 Intermediate Modern Dance****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 110 - Beginning Modern Dance

The study and execution of modern dance techniques, including level 2 movement skills with a more advanced rhythmic structure. Students will study styles such as Martha Graham, Merce Cunningham and Jose Limon. The opportunity to create and perform their own movement combinations is part of the structure of the class. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 115 Advanced Modern Dance****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 111 - Intermediate Modern Dance

Limitations on Enrollment: Audition

The study and execution of modern dance styles such as, Martha Graham, Merce Cunningham, and Jose Limon at an advanced level. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. (Letter Grade Only)

**DANC 120 Beginning Ballet****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4

An introduction to the fundamentals of ballet movement and terminology. Barre work emphasizes the basic exercises of ballet that develop control, strength, and basic body placement. Center work concentrates on basic ballet combinations of adage, jumps, waltz, and turns. Students have the opportunity to create their own movement combinations. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 121 Intermediate Ballet****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 120 - Beginning Ballet

A study at the intermediate level of movements appropriate to classical music, including intermediate level ballet barre,

center adagio, turns, and allegro movement. Students have the opportunity to create their own movement combinations. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 125 Advanced Ballet****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 121 - Intermediate Ballet

Limitations on Enrollment: Audition

Emphasizes complex work in the Russian and Italian Ballet techniques, including turns, beats, and grand allegro. Students have the opportunity to develop ballet performing skills. Attendance of AHC dance concert is required. (Letter Grade Only)

**DANC 130 Beginning Jazz****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 1.00

Advisories: ENGL 514 - Writing Skills 4

An introduction to the basic movements appropriate to contemporary jazz music, emphasizing exercises that develop body strength and flexibility, and improve rhythmic abilities and movement coordination. Covers different jazz styles, including rock, modern jazz, and theatre dance. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. This is a lecture/lab course. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 131 Intermediate Jazz****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 1.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 130 - Beginning Jazz

A study at the intermediate level of movements appropriate to contemporary music, including turns, floor work, isolation combinations, and rhythm techniques. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 133 Hip Hop Dance****2.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

An introduction to hip hop dance including East and West Coast dance styles. Observation and critique of a dance concert is required. (Fall, Spring) (Letter Grade or Pass/No Pass)

**DANC 135 Advanced Jazz****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 1.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 131 - Intermediate Jazz

Limitations on Enrollment: Audition



A study of jazz technique at the advanced level. Students have the opportunity to create their own movement combinations. Attendance of AHC dance concert is required. (Letter Grade Only)

### **DANC 137 Funk Dance**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 133 - Hip Hop Dance

A study of Funk Dance from the West Coast at the intermediate level. Observation and critique of a dance concert is required. This is a lecture/lab course. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DANC 138 Intermediate Hip Hop**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4 ; DANC 133 - Hip Hop Dance

A study of hip hop dance from the East Coast at the intermediate level. Observation and critique of a dance concert is required. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DANC 140 Beginning Folklorico**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

An introduction to the fundamentals of movements appropriate for Mexican folklorico and dances of Spain, emphasizing exercises to improve rhythmic abilities and movement coordination. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DANC 142 Intermediate Folklorico**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 140 - Beginning Folklorico

An intermediate study of traditional dance from both Mexico and Spain. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **DANC 145 Folklorico Zapateados**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 140 - Beginning Folklorico

Perform beginning and low intermediate folklorico footwork from various regions of Mexico. (Letter Grade or Pass/No Pass)

### **DANC 148 Folklorico Concert Production**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Audition

Provides the opportunity for career-oriented performers to work with guest artists in the Ballet Folklórico performance experience. Those experiences will include on campus and community outreach performances throughout the semester including a mandatory participation in ANGF (Asociacion Nacional de Grupos Folklóricos) dance convention and competition. (Letter Grade Only)

### **DANC 151 Clinic In Tap**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to the basic movements of tap dancing, emphasizing styles of musical theater as related to tap. (Summer) (Pass/No Pass)

### **DANC 152 Beginning Tap**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 1.00

Advisories: ENGL 514 - Writing Skills 4

An introduction to the basic movements of tap dancing, emphasizing styles of musical theater as related to tap. Covers exercises to develop rhythmic abilities and movement coordination. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DANC 153 Intermediate Tap**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 1.00

Advisories: ENGL 514 - Writing Skills 4 ; and DANC 152 - Beginning Tap

A study of intermediate level movements of tap dancing and freestyle rhythmic forms, emphasizing styles of musical theater as related to tap. (Fall) (Letter Grade or Pass/No Pass)

### **DANC 154 Clinic in Partnering**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: DANC 110 - Beginning Modern Dance ; or DANC 120 - Beginning Ballet ; or DANC 130 - Beginning Jazz

Designed for the intermediate level student. Ballet, modern, and jazz will be taught for women; while men will work on masculine movement in the same styles. Techniques for partnering will also be explored. (Pass/No Pass)

### **DANC 155 Clinic in Pilates**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to Pilates-based exercise techniques. (Pass/No Pass)

### **DANC 156 Techniques for Stretch**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

Designed to help students increase range of motion while decreasing injuries associated with improper preparation for physical activities. While the class is particularly important for dancers and athletes, all students can benefit. (Letter Grade or Pass/No Pass)

### **DANC 160 Clinic in Ballet**

#### **0.5 units**

Acceptable for credit: Transfer to UC, CSU

A study of fundamental dance techniques, focusing on building basic stretch and strength for the student. Emphasis on style varies according to the needs of the student. (Summer) (Pass/No Pass)



**DANC 161 Clinic In Intermediate Ballet****0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 120 - Beginning Ballet ; or DANC 160 - Clinic in Ballet

A study in intermediate ballet, focusing on the classical style. (Summer) (Pass/No Pass)

**DANC 162 Clinic in Jazz****0.5 units**

Acceptable for credit: Transfer to UC, CSU

A study of fundamental dance techniques in contemporary forms, emphasizing building stretch and strength and learning rhythmic forms to contemporary music. (Summer) (Pass/No Pass)

**DANC 163 Clinic in Intermediate Jazz****0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 130 - Beginning Jazz ; or DANC 162 - Clinic in Jazz

A study of intermediate dance techniques in the contemporary styles. Emphasis on complex rhythmic movements. (Summer) (Pass/No Pass)

**DANC 164 Clinic in Modern Dance****0.5 units**

Acceptable for credit: Transfer to UC, CSU

A study of basic modern dance techniques including warm-ups, locomotor moves, combinations, improvisation, and terminology. A live performance will conclude the session. (Summer) (Pass/No Pass)

**DANC 165 Clinic in Hip Hop****0.5 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to hip hop dance. (Summer) (Pass/No Pass)

**DANC 168 Clinic in Stretch****0.5 units**

Acceptable for credit: Transfer to UC, CSU

Designed to help students increase range of motion while decreasing injuries associated with improper preparation for physical activities. Students learn to maintain a position for a sustained period of time in order to allow the body to stretch and warm its muscles. While the class is particularly important to dancers and athletes, all students can benefit. (Pass/No Pass)

**DANC 170 Music for Dancers****1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 110 - Beginning Modern Dance ; or DANC 120 - Beginning Ballet ; or DANC 130 - Beginning Jazz

The study of music and basic rhythms as they relate to dance, including quality, phrasing, and extensive practice in counting and moving to music. (Summer) (Letter Grade Only)

**DANC 171 Dance Composition/Choreography****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4 ; or DANC 111 -

Intermediate Modern Dance ; or DANC 121 - Intermediate Ballet ; or DANC 131 - Intermediate Jazz

An exploration of movement expression through improvisation and choreographic exercises for the intermediate dance student. Students will have an opportunity to work on choreographic exercises for the intermediate dance student. Students will have an opportunity to work on choreography as a complete concert piece. (Summer) (Letter Grade Only)

**DANC 172 Beginning Ballroom Dance****0.5 units**

Acceptable for credit: Transfer to UC, CSU

Students will learn basic ballroom dances including the rumba, cha-cha, fox trot, waltz, tango, swing and samba. (Pass/No Pass)

**DANC 175 Clinic in Salsa****0.5 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to salsa as a social dance form. (Summer) (Pass/No Pass)

**DANC 176 Choreography Field Work****2.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Presents intermediate level projects in choreography that will lead to a performance. (Summer) (Letter Grade Only)

**DANC 178 Intermediate Social Dance****0.5 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: DANC 175 - Clinic in Salsa

A study of complex Latin and jitterbug dance forms. Partner lifts will be explored. (Pass/No Pass)

**DANC 180 Performance Laboratory****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Audition

Provides an opportunity for students to utilize all the performance and choreographic skills used in dance performance, including performing on campus in informal concerts and in a major concert in the college theatre. (Fall, Spring) (Letter Grade Only)

**DANC 182 Technical Production Lab****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Limitations on Enrollment: Audition

Provides an opportunity for dance students to develop and apply technical expertise and skills utilized in dance performance including lighting, costuming, set-prop design, construction and publicity. (Fall, Spring) (Letter Grade Only)

**DANC 183 Dance Ensemble****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Audition

Provides the opportunity for career-oriented performers to work with staff and guest artists in the rehearsal and performing experience. Those experiences will include on campus and community outreach performances throughout the semester including a mandatory participation in American College Dance Festival competition. (Spring) (Letter Grade Only)

### **DANC 185 Intro to Performance Skills**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Audition

An introductory skills class in performance techniques. Provides opportunity for students to learn and perfect performing skills used in a dance performance. (Fall, Spring) (Letter Grade Only)

### **DANC 186 Dance Production**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Audition

Provides an opportunity for dance students to learn and use performance skills to mount a major concert. (Fall, Spring, Summer) (Letter Grade Only)

### **DANC 188 Intermediate Composition/ Choreography**

**3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Audition

Prerequisite: DANC 171 - Dance Composition/Choreography

Provides the opportunity for career-oriented choreographers to mount a full length concert piece for on campus theatre, as well as for community outreach performances throughout the semester. This is a lab course. (Fall, Spring) (Letter Grade Only)

### **DANC 189 Independent Projects in Dance**

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester, 2 units - 96 hours per semester, 3 units - 144 hours per semester. (Letter Grade or Pass/No Pass)

### **DANC 199 Special Topics in Dance Forms**

**0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition. This is a lab course. (Letter Grade or Pass/No Pass)

### **DANC 199A Workshop in World Dance**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Audition

Provides an opportunity to explore particular aspects of World Dance which are not Covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition. This is a lab course. (Letter Grade Only)

### **DANC 379A Workshop in Contemporary Dance**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Provides a specific opportunity to explore aspects of contemporary dance which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition. This is a lab course with offered units based on unit formula. (Letter Grade or Pass/No Pass)

## **Adults With Disabilities (Noncredit)**

### **DISA 7001A Independent Living Skills**

**0.0 hours**

Acceptable for credit: N - Noncredit

Designed for adults with developmental disabilities, this course improves the student's knowledge of basic skills necessary to function more independently in the home, work, and community environment. These courses are cosponsored by and taught on location at the Vocational Training Center and at Life Options and Vocational Resource Center (LOVARC).

### **DISA 7002A Vocational Skills Training**

**0.0 - 225.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Designed for adults with developmental disabilities, this course teaches proficiency in foundation skills, workplace competencies, appropriate social behavior, and work habits. (Noncredit )

## **Drama**

### **DRMA 103 Introduction to Theatre**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: eligibility for ENGL 101; or ENGL 100 - Writing in Career/Tech Fields

Explores theatre as an artistic medium for enhancing an understanding of the diversity of the human experience and as a reflection of the development of civilization. This course focuses

on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles, and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. (Letter Grade or Pass/No Pass)

### **DRMA 104 Acting I**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: THTR 151

Advisories: ENGL 514 - Writing Skills 4 ; or READ 110 - Introduction to Critical Reading

This course prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: doing rather than being, goal attainment (intention), memorization, stage movement vocal production, and interpretation of text. Attendance of a live performance for the purpose of evaluation is required. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DRMA 106 Acting II**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: THTR 152

Prerequisite: DRMA 104 - Acting I

This course follows Acting I and continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. Attendance of a live performance for the purpose of evaluation is required. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **DRMA 110 History of World Theatre 1**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: THTR 113

Advisories: ENGL 514 - Writing Skills 4 ; or Eligibility for ENGL 101

The study of the history of world theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural political and social conditions of the time. Plays are read for an analysis of structure, plot, character and historical relevance. Students undertaking this course on-line will need to purchase access to a web site in addition to the text. (Spring) (Letter Grade or Pass/No Pass)

### **DRMA 111 History of World Theatre 2**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: Eligibility for ENGL 100 or ENGL 101

The study of the history of world theatre from the Origins of Theatre through the 17th Century. The history and development of theater and drama are studied in relationship to cultural political and social conditions of the time. Plays are read for an analysis of structure,

plot, character and historical relevance. (Fall) (Letter Grade or Pass/No Pass)

### **DRMA 114 Introduction to Theatre Laboratory**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

Prerequisite: completion of the program application and procedures for enrollment

An opportunity to experience professional theatre by assisting in one of the PCPA production areas: the artistic office, acting, directing, musical direction, choreography, design, production management, marketing, casting, or any of the production shops; lighting, sound, scenery, costumes, paints, props, or on the running crew of a production. (Fall, Spring, Summer) (Pass/No Pass)

### **DRMA 124 Stagecraft**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: THTR 171

Advisories: MATH 521 - Foundations of Mathematics

An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, and career possibilities. Topics include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and practical experience. (Fall) (Letter Grade or Pass/No Pass)

### **DRMA 128 Stage Makeup**

#### **3.0 units**

Acceptable for credit:

C-ID Course Number: THTR 175

Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. Various conceptual and technical problems will be studied and solved. This is a lecture/lab course. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **DRMA 179A Beginning Makeup for Stage/TV**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course will offer the student a practical guide to the theory and practice of theatrical makeup. Students will become familiar with the traditional and color theory approaches to makeup. Various conceptual and technical problems will be studied and solved. (A) (Letter Grade Only)

### **DRMA 189 Independent Projects in Drama**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer to UC, CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, re-search, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the

project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (GR/P/NP) (Letter Grade or Pass/No Pass)

### **DRMA 199 Special Topics in Drama**

#### **0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. Twelve units may be applied toward graduation requirements. Course includes public performances; therefore there is a limitation on enrollment based on audition/interview and/or portfolio review. This is a lab course with offered units based on unit formula. (Letter Grade or Pass/No Pass)

### **DRMA 199A DeLaurier's Curtains**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides an opportunity to explore particular aspects of the discipline which are not covered in detail in the existing program. (Letter Grade Only)

### **DRMA 199S Repertory of Noises off and Forever units**

Acceptable for credit:

TBA

### **DRMA 389 Independent Projects**

#### **0.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Acceptable for credit: CSU, UC-Determined after admission Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

## **Economics**

### **ECON 101 Principles of Macro-Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ECON 202

Prerequisite: MATH 311 - Algebra 1 ; or higher, or eligibility for Math 331 or higher based upon Allan Hancock College's placement policy.

An introduction to aggregate economic analysis. Topics include market systems; economic cycles including recession, unemployment, and inflation; national income accounts; macroeconomics equilibrium; money and financial institutions; monetary and fiscal policy; and international trade and finance. ECON 101 may be taken prior to or concurrently with ECON 102/ ECON 121/BUS 121. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECON 102 Principles of Micro-Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: C-ID ECON 201

Prerequisite: MATH 311 - Algebra 1 ; or higher, or eligibility for Math 331 or higher based upon Allan Hancock College's placement policy.

An introduction to types of individual economic units. Topics include scarcity, opportunity costs, comparative advantage, supply, demand, elasticity, cost theory, price and output determination under various market structures and factor markets. Related topics such as international trade, public choice, income distribution, externalities and government regulation will also be included. ECON 102 may be taken prior to or concurrently with ECON 101/ ECON 121/BUS 121. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECON 121 Business Economics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to basic economic analysis and institutions. Macroeconomic analysis of income, employment, price level, and international trade. Microeconomic analysis of demand, production, competitive and noncompetitive product markets, and factor markets. Emphasis is placed on the applications of economic theory in the business environment. This course is not open to students who are enrolled in or have received credit for BUS 121. May be taken prior to or concurrently with ECON 101 or ECON 102. (Fall, Spring, Summer) (Letter Grade Only)

### **ECON 130 Consumer and Family Finance**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement, and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit

for Business 130 or Family and Consumer Sciences 130. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECON 141 Global Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: Completion of or concurrent enrollment in; ECON 101 - Principles of Macro-Economics ; or ECON 102 - Principles of Micro-Economics ; or ECON 121 - Business Economics ; or BUS 121 - Business Economics

An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange-rate fluctuations, and the determinants of a country's balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international debt problems. This course is not open to students who are enrolled in or who have received credit for Business 141. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **Early Childhood Studies**

#### **ECS 100 Child Growth and Development**

##### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: CDEV 100

Advisories: ENGL 513 - Writing Skills 3

This course examines the major physical, cognitive, social and emotional developmental milestones for children from conception through adolescence. Emphasis will be made on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

#### **ECS 101 Child, Family and Community**

##### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 513 - Writing Skills 3

The processes of socialization focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children's' development. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

#### **ECS 102 Child Health, Safety & Nutrition**

##### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: ECE 220

Advisories: ENGL 513 - Writing Skills 3

An introduction to the laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in early childhood settings. Includes prevention strategies, nutrition, and meal planning for various ages and planning educational experiences integrated into daily routines designed to teach children positive health, safety, and nutrition habits. Focus on integrating the concepts into everyday planning and program

development for all children. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECS 104 Principles and Practices of Teaching Young Children**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: ECE 120

Advisories: ENGL 513 - Writing Skills 3

Historical context and theoretical perspectives of developmentally appropriate practice in early care and education. Examines the role of the early childhood educator, identification of best practices for environmental design, curriculum, and teaching strategies. Explores teacher child relationships, professional ethics, career pathways and professional standards. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 105 Observation and Assessment**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Limitations on Enrollment: All students enrolled in ECS 105, ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to the ECS program in order to meet the provisions of SB792.

Prerequisite: ECS 100 - Child Growth and Development

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning for use in collaborative partnerships with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. All students enrolled in ECS 105, ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to meet the provisions of SB792. Students must be on the waitlist and provide required documentation on the first day of class in order to receive an add code to add the class. For more information, contact the department. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 106 Introduction to Early Childhood Curriculum**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Limitations on Enrollment: All students enrolled in ECS 105, ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis, and measles to meet the provisions of SB 792.

Prerequisite: ECS 105 - Observation and Assessment

The study of planning and facilitating developmentally appropriate early childhood curriculum and classroom environments. Students will examine the teacher's role in supporting children's development and joy of learning through observation, environment assessment, and implementation of various curriculum activities. Several assignments will require students to work with children in an Early Childhood Center. Students must have completed successfully ECS 105 with a grade of C or better. All students

enrolled in ECS 105, ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis, and measles to meet the provisions of SB 792. Students must be on the waitlist and provide required documentation on the first day of class in order to receive an add code to add the class. For more information, contact the department. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 111 Administration I: Programs in Early Childhood Education**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

Introduction to the administration of early childhood education programs. Students will study the principles and practices in the supervision and administration of various kinds of early care and education programs, including program planning and philosophies, organizational structure, financial management, personnel administration, staff leadership, licensing requirements, accreditation standards, and advocacy for children and families. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 112 Introduction to Young Children with Special Needs**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ECS 100 - Child Growth and Development ; ENGL 513 - Writing Skills 3

Introduces the variations in development of young children with special needs and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. (Letter Grade or Pass/No Pass)

### **ECS 113 Curriculum and Strategies for Children with Special Needs**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3 ; and ECS 115 - Care and Education for Infants and Toddlers

Prerequisite: ECS 100 - Child Growth and Development ; and

ECS 112 - Introduction to Young Children with Special Needs

Course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. (Letter Grade or Pass/No Pass)

### **ECS 114 Parent/Child Relationships**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Examines socio-cultural and psychological perspectives on parent/child relationships by investigating typical and atypical child-rearing patterns from infancy. Topics include analysis of

developmental issues between parents and children, the nature of permanent relationships, and effective models of parental practices. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 115 Care and Education for Infants and Toddlers**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ECS 151 - Infant and Toddler Development ; and

ENGL 513 - Writing Skills 3

Students will be able to apply current theory and research to the care and education of infants and toddlers in group settings. This course examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. (Spring) (Letter Grade or Pass/No Pass)

### **ECS 116 Teaching in a Diverse Society**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: ECE 230

Advisories: ECS 101 - Child, Family and Community ; and ENGL

513 - Writing Skills 3

Examines the impact of various societal influences on the development of children's social identity. Covers developmentally appropriate, inclusive, and anti-bias approaches. Self-examination and reflection on issues related to social identity, stereotypes, and bias will be emphasized. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 117 Teaching the Hispanic Child**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Examines the cultural context of educational models and an overview of the role of the teacher, instructional aide, and parents in the educational process of the Spanish speaking child. (Spring) (Letter Grade or Pass/No Pass)

### **ECS 118 Practicum: Preschool**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: ECE 210

Advisories: ENGL 513 - Writing Skills 3

Limitations on Enrollment: All students enrolled in ECS 105, 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to the ECS program to meet the provisions of SB792

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

This course requires 75 hours of supervised practicum teaching in the preschool area of the Allan Hancock College Children's Center lab school. The 75 lab hours per term, to be arranged, will average about 4.5 weekly hours for semester length classes, or 10 weekly hours for shorter terms, in which students' work includes, but is not limited to: implementing lesson plans and environments, conducting observations of children, and completing a child assessment. The accompanying lecture focuses on teaching



goals and strategies, reflections, insights, accomplishments and challenges specific to working with preschool age children. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning assessment, and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. No concurrent enrollment is allowed in ECS 118 and ECS 119. Effective August 22nd, 2016 all students enrolled in ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to meet the provisions of SB792. Students must be on the waitlist and provide required documentation on the first day of class in order to receive an add code to add the class. For more information contact the department at extension 3401 or 3436. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECS 119 Practicum: Infant/Toddler**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3 ; ECS 115 - Care and Education for Infants and Toddlers ; ECS 151 - Infant and Toddler Development

Limitations on Enrollment: All students enrolled in ECS 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to meet the provisions of SB792. Students must be on the waitlist and provide required documentation on the first day of class in order to receive an add code to add the class.

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

This course requires 75 hours per term of supervised practicum teaching in the infant toddler area of the Allan Hancock College Children's Center lab school. The 75 lab hours per term, to be arranged, will average about 4.5 weekly hours for semester length classes, or 10 weekly hours for shorter terms, in which students' work includes, but is not limited to: implementing lesson plans and environments, conducting observations of children, and completing a child assessment. The accompanying lecture focuses on teaching goals and strategies, reflections, insights, accomplishments and challenges specific to working with infant/toddler age children. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning assessment, and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. No concurrent enrollment is allowed in ECS 118 and ECS 119. All students enrolled in ECS 105, 106, ECS 118 or ECS 119 must show proof of their current tuberculosis (TB) clearance and immunization against influenza, pertussis and measles to meet the provisions of SB792. Students must be on the waitlist and provide required documentation on the first day of class in order to receive an add code to add the class. For more information contact the department

at extension 3401 or 3436. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 120 Adult Supervision and Mentoring In Early Childhood Education**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

Methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the role and development of early childhood professionals as mentors and leaders. (Spring) (Letter Grade or Pass/No Pass)

### **ECS 122 Positive Child Guidance**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

This course will explore developmentally appropriate guidance and discipline for children from birth through middle childhood. Strategies and techniques for developing and maintaining an encouraging classroom will be studied. The historical perspectives of guidance and discipline will be studied as well as new trends, classroom techniques, and teaching strategies. The roles of family, community, and school in the encouraging classroom and the development of a child's democratic life skills will be explored. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 125 Curriculum for School-Age Children**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ECS 100 - Child Growth and Development ; and ENGL 513 - Writing Skills 3 ; ECS 101 - Child, Family and Community

A study of the developmental needs, appropriate curriculum, and guidance techniques for children 6 to 12 years old in a child-care setting. This course meets Title 22 curriculum requirements for teachers and directors in extended childcare programs. (F2). (Fall) (Letter Grade or Pass/No Pass)

### **ECS 130 Exploring Teaching**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

This course introduces concepts and issues related to teaching diverse learners in today's contemporary public schools. Topics include teaching as a profession and career, contemporary educational issues, California's content and performance standards and frameworks, and requirements for earning the teaching credential. This course requires a 48 hour structured field experience (3 hours per week to be scheduled) that provides opportunities to observe and work in an educational setting. This course is not open to students who are enrolled in or have completed EDUC 130. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 132 Child Identity and Learning**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ECS 100 - Child Growth and Development ; and ENGL 513 - Writing Skills 3

Child development concepts applied to all aspects of the elementary school age child; special emphasis on literacy development and responsive teacher-child practices, including understanding diverse learning styles, influences of culture and language acquisition. This course requires 3 hours weekly of supervised practicum teaching in the elementary school setting, which are to be scheduled. This course is not open to students who are enrolled in or have completed EDUC 132. (Spring) (Letter Grade Only)

### **ECS 149 Cooperative Work Experience: Occupational**

**1.0 - 8.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. NUMBER OF TIMES COURSE CAN BE REPEATED: Students enrolled in CWE 149 may earn up to 8 units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience course will be included in the 16 unit maximum. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning on-the-job related learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits and fostering positive workplace attitudes. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ECS 150 Administration II: Personnel and Leadership in Early Childhood Education**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

This course covers effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and developing strategies for establishing collaboration and communication for a diverse and inclusive early care and education program. (Letter Grade or Pass/No Pass)

### **ECS 151 Infant and Toddler Development**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Course emphasizes the role of family and relationships in development. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 303 Introduction to Early Childhood**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

An introduction to the early childhood program and profession that includes exploration of basic technology skills necessary for the Early Childhood Studies student, examination of career opportunities, professional development, and the personal and professional characteristics required in the field of early childhood care and education. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ECS 310 Art for Young Children**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

Designed to familiarize students with the theories and techniques of creative art for young children. (Spring) (Letter Grade or Pass/No Pass)

### **ECS 311 Creating Learning Materials**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

Designed to familiarize students with diverse pedagogical strategies used to create curriculum materials suitable for use with young children. (Spring) (Letter Grade or Pass/No Pass)

### **ECS 312 Music for Early Childhood Educators**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

Designed to familiarize students with methods of integrating music activities, such as rhythms, songs, records, and simple musical instruments, into the education of young children. (Spring) (Letter Grade Only)

### **ECS 313 Science for Young Children**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course is designed to familiarize students with the theories and techniques of teaching Science to young children and provide exploration of principles, methods, and materials for teaching young children Science concepts through discovery and play. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 314 Engineering and Technology for Young Children**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course is designed to familiarize students with the theories and techniques of teaching engineering and technology to young children, and provide exploration of principles, methods, and materials for teaching young children engineering concepts through discovery and play. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 315 Math for Young Children**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course is designed to familiarize students with the theories and techniques of teaching Math to young children and provide exploration of principles, methods, and materials for teaching young children math concepts through discovery and play. (Fall) (Letter Grade or Pass/No Pass)

### **ECS 320 Administration: Staff Leadership**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

Prerequisite: ECS 105 - Observation and Assessment

Review of effective leadership styles in the administration of Early Childhood Programs that result in improved staff communication and job performances. (Letter Grade or Pass/No Pass)

### **ECS 321 Administration: Professional Ethics**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ECS 100 - Child Growth and Development ; and ENGL 513 - Writing Skills 3

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

Review of the administrator's ethical responsibilities of children, families, community and society based on the standards recommended by the national Association for the Education of Young Children (NAEYC). (Letter Grade or Pass/No Pass)

### **ECS 322 Administration: Parents as Partners**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 513 - Writing Skills 3

Prerequisite: ECS 106 - Introduction to Early Childhood Curriculum

An analysis of set guidelines and strategies for administrators which will focus on the formation of a supportive link between school and home. (Letter Grade or Pass/No Pass)

## **Educational Technologies**

### **EDTC 300 Being A Successful Online Student**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

This course is designed to prepare students for Distance Learning (DL) courses by covering the differences between the traditional classroom and the DL classroom; teaching students how to anticipate, avoid, and/or solve common DL problems and challenges; presenting practical strategies and approaches to successful DL learning; and providing students with hands-on exercises and activities aimed at familiarizing students with all

aspects of a college's learning management system (LMS). (Letter Grade or Pass/No Pass)

## **Education**

### **EDUC 130 Exploring Teaching**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: EDUC 200

Advisories: English 101

This course introduces concepts and issues related to teaching diverse learners in today's contemporary public schools. Topics include teaching as a profession and career, historical and philosophical foundations of the American Education system, contemporary educational issues, California's content and performance standards and framework, and requirements for earning the teaching credential. This course requires a 48 hour structural field experience (3 hours per week to be scheduled) that provides opportunities to observe and work in an educational setting. This course is not open to students who are enrolled in or have completed ECS 130. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EDUC 132 Child Identity And Learning**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ECS 100 - Child Growth and Development ; and ENGL 513 - Writing Skills 3

Child development concepts applied to all aspects of the elementary school age child; special emphasis on literacy development and responsive teacher-child practices, including understanding diverse learning styles, influences of culture and language acquisition. This course requires 3 hours weekly of supervised practicum teaching in the elementary school setting, which are to be scheduled. This course is not open to students who are enrolled in or have completed ECS 132. (S) (Spring) (Letter Grade Only)

### **EDUC 133 Technology For Educators**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A study of computing technologies afforded young children in preschool and primary-grade classrooms and how these experiences influence children's cognitive, social and physical development. Curricular criteria and strategies for implementation will be explored. This course is not open to students who are enrolled in or have received credit for Early Childhood Studies 133. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Electronics**

### **EL 104 Introduction to Robotics and Mechatronics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to robotic control applications. Basic electronics including digital, analog, and microcontroller devices, sensors and transducers, and actuators will be emphasized for automation

control. Topics include Basic, Assembly and C language programming for robotic control; interfacing of indicators, switches, sensors and transducers; controlling motion and motors; monitoring and measurement of rotation; measuring light, temperature and conductance; application of navigation and measurement techniques; remote control applications; mechanical systems; and the control of frequency and sound. This course is not open to students who are enrolled in or have received credit for CEL 104 or ET 104. (Fall, Spring) (Letter Grade Only)

### **EL 105 PC Preventive Maintenance and Upgrading**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Necessary skills and information needed to make an informed purchase, maintain, upgrade, and evaluate personal computer systems. The student will receive hands-on instruction for performing basic preventive maintenance and the installation of simple upgrades such as adding RAM, installing hard drives, sound cards, etc. Included is the study of soldering techniques, electronic part identification, and safety and system operation. Emphasis will be placed on the student's ability to keep personal computers running at their best performance levels. (Fall, Spring) (Letter Grade Only)

### **EL 106 Networking Essentials 1**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: EL 105 - PC Preventive Maintenance and Upgrading ; and EL 125 - Digital Devices and Circuits

First course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing, cabling, CompTIA Network +, and network standards; the theory behind the various kinds of network architectures and data transmission methods, and the use of decision-making and problem-solving techniques in applying science, mathematics, and communication concepts to solve networking problems. Instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. Emphasis will be placed on the Cisco System Certification. Not open to students who have received credit for CS 106. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EL 107 Networking Essentials 2**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 106 - Networking Essentials 1

Second course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods including network troubleshooting. Emphasis will be placed on the Cisco System Certification. This course is not open to students who have received credit for CS 107. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EL 108 Networking Essentials 3**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 106 - Networking Essentials 1 ; or EL 107 - Networking Essentials 2

Third course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for CS 108. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EL 109 Networking Essentials 4**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 108 - Networking Essentials 3 ; or EL 106 - Networking Essentials 1 ; or EL 107 - Networking Essentials 2

The final course in a series designed to provide students with knowledge of and laboratory experiences with current and emerging computer networking technology. Focus will be on LANs, WANs, OSI models, IP addressing and router programming; and the theory behind the various kinds of network architectures and data transmission methods. Emphasis will be placed on the Cisco System Certification. This course is not open to students who are enrolled in or have received credit for CS 109. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EL 118 Fundamentals of DC and AC Circuits Analysis**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Corequisite: EL 119 - Fundamentals of DC and AC Circuits Analysis Laboratory

An introductory study of the nature of electricity; the processes employed in the analysis and documentation of DC and AC electric circuits, and the use of basic electronics testing instruments. Topics include: current voltage, resistance, power, reactance, admittance, resonance, Ohm's law, series parallel and bridge resistive and reactive circuits, Kirchhoff's voltage and current laws, loading effects of meters and supplies, capacitors, inductors, filters, RC and RL time constants, applications of Kirchhoff laws to multiple source series-parallel circuits, complex numbers, and network theorems. (Fall, Spring) (Letter Grade Only)

### **EL 119 Fundamentals of DC and AC Circuits Analysis Laboratory**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Corequisite: EL 118 - Fundamentals of DC and AC Circuits Analysis

Provides the student practical experience for the comprehension of DC and AC electrical concepts introduced in EL 118 (Fundamentals of Circuit Analysis) and also presents the proper use of electronic test instrumentation for the measurement of circuit parameters. (Fall, Spring) (Letter Grade Only)

**EL 122 Electronic Devices and Circuits****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Concurrent enrollment in; EL 123 - Electronic Devices and Circuits Laboratory

Prerequisite: EL 118 - Fundamentals of DC and AC Circuits Analysis ; and EL 119 - Fundamentals of DC and AC Circuits Analysis Laboratory

Introductory study of semiconductor devices and systems. A detailed analysis of diodes; bipolar junction translators and field-effect transistors; biasing techniques, active circuits, thyristors and optoelectronic components and linear integrated circuits. (Fall) (Letter Grade Only)

**EL 123 Electronic Devices and Circuits Laboratory****2.0 units**

Acceptable for credit: Transfer CSU

Advisories: Completion of or concurrent enrollment in EL 122

Prerequisite: EL 118 - Fundamentals of DC and AC Circuits Analysis ; and EL 119 - Fundamentals of DC and AC Circuits Analysis Laboratory

Provides the opportunity for the student to apply theoretical semiconductor concepts in a laboratory environment. Major areas of emphasis include diodes, bipolar junction transistors, field-effect transistors, thyristors, optoelectronic devices, and linear integrated circuits. (Fall) (Letter Grade Only)

**EL 125 Digital Devices and Circuits****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 118 - Fundamentals of DC and AC Circuits Analysis ; and EL 119 - Fundamentals of DC and AC Circuits Analysis Laboratory

Study of modern logic devices, circuits and design techniques emphasizing logic families, implementation of devices, combinational and sequential logic circuits, number systems and codes, A/D and D/A conversion, ALU's, digital computer math techniques, memories, system design and troubleshooting practices. (Letter Grade Only)

**EL 126 Digital Devices and Circuits Lab****2.0 units**

Acceptable for credit: Transfer CSU

Advisories: Completion of or concurrent enrollment in EL 125

Prerequisite: EL 118 - Fundamentals of DC and AC Circuits Analysis ; and EL 119 - Fundamentals of DC and AC Circuits Analysis Laboratory

Digital electronics laboratory designed to parallel Digital Devices and Circuits (EL 125). Emphasizes device operation in circuits and networks and the proper use of standard digital logic test instruments used in the process of troubleshooting and verifying proper circuit operations. (Fall, Spring) (Letter Grade Only)

**EL 128 Introduction to Renewable Energy****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics ; or ET 104 or EL 104

A study of the principles behind energy generation and conversion that can be applied to modern electrical, mechanical, and chemical devices that use or produce power. Special emphasis will be given to the study of electricity as a renewable energy source. This course is not open to students who are enrolled in or have received credit for CEL 128 or ET 128. (Letter Grade Only)

**EL 131 Programmable Logic Controllers and Control Design****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 125 - Digital Devices and Circuits

A study of the purpose and operating features of a programmable logic controller (PLC). Topics include PLC terminology, architecture, input/output modules, memory, commands for internal relays, on/off timers, up/down counters, use of subroutines, program control, and math instructions. Relay schematics, ladder logic diagrams, and programming of logic controllers are emphasized. Sensing devices and time-driven process sequences will be studied and integrated into control systems. This course is not open to students who are enrolled in or have received credit for CEL 131 or ET 131. (Letter Grade Only)

**EL 133 Mechatronic Systems 1****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics or EL 104 or ET 104

This is a hands-on mechatronic systems course that focuses on the electromechanical concepts (mechanics, electronic, and programming) of automated systems. Emphasis is placed on how industrial grade sensors and transducers function and upon how they are interfaced into control systems. Study topics include: transducers and sensors for light, heat, motion, pressure, and position control; switching devices; input and output signal conditioning; continuous, closed-loop, and proportional integral derivative process control; and safety. This course is not open to students who have received credit for, or are enrolled in ET 133 or CEL 133. (Letter Grade Only)

**EL 135 Electronic Measurement and Instrumentation****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Concurrent enrollment in EL 136 is recommended  
Prerequisite: EL 122 - Electronic Devices and Circuits ; and EL 123 - Electronic Devices and Circuits Laboratory ; and EL 125 - Digital Devices and Circuits ; and EL 126 - Digital Devices and Circuits Lab

Designed to familiarize students with operating principles and characteristics of basic electronic testing equipment as well as advanced specialized measuring instruments. Methods of operation and calibration of these devices are covered including an overview of Automated Test Equipment (ATE) systems. (Fall) (Letter Grade Only)

**EL 136 Electronics Measurement and Instrumentation Laboratory****2.0 units**

Acceptable for credit: Transfer CSU

Corequisite: EL 135 - Electronic Measurement and Instrumentation

Prerequisite: EL 122 - Electronic Devices and Circuits ; and EL 123 - Electronic Devices and Circuits Laboratory ; and EL 125 - Digital Devices and Circuits ; and EL 126 - Digital Devices and Circuits Lab

Provides hands-on laboratory experience for the study and construction of electronic testing instruments. The student is introduced to many different types of testing equipment currently used by the electronics industry. (Fall) (Letter Grade Only)

## **EL 139 Electrical Power, Motors, and Controls**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 122 - Electronic Devices and Circuits ; and EL 125 - Digital Devices and Circuits

A study of electronics, signal communication and power technology that support efficient manufacturing processes for various industries. Topics include motors, their drives and controls, power electronics, PLCs, and communications networks used to monitor industrial processes. This course is not open to students who are enrolled in or have received credit for CEL 139 or ET 139. (Letter Grade Only)

## **EL 146 Electronic Product Design, Fabrication and Documentation**

**2.0 units**

Acceptable for credit: Transfer CSU

A study of product fabrication emphasizing mechatronic applications and designs. Topics include the design process; CADD drawings, schematics, diagrams, and support graphic requirements; printed circuit board layout and population techniques; technical writing; project documentation requirements; surface mount technologies; prototyping; printed circuit board testing, troubleshooting, and final documentation emphasizing hands-on experiences. The use of industry standard computer aided drafting and support software will be studied and utilized in all phases of documentation through camera ready artwork. (Letter Grade Only)

## **EL 162 Fluid Power And Control**

**2.0 units**

Acceptable for credit: Transfer CSU

An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is not open to students who are enrolled in or have received credit for CEL 162 or ET 162. (Letter Grade Only)

## **EL 189 Independent Projects in Electronics**

**1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of

skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and approved by the appropriate dean before the last day of the enrollment. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

## **EL 320 A+ Certification**

**2.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: EL 105 - PC Preventive Maintenance and Upgrading Computer repair and maintenance with a focus on preparations required for achieving the industry standard CompTIA A+ Certification. The hands-on study includes the A+ Core Test Domains and the Windows/DOS Test Domains. This course is not open to students who have received credit for CS 320. (Letter Grade Only)

## **EL 332 Wireless Network Administrator**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of the basic concepts and technologies of wireless data networking. Includes basic RF theory, WiFi infrastructure, link budget math, troubleshooting techniques, site survey skills, and security measures. Prepares students to take the CWNA Certification Exam at Prometric Testing Centers. This course is not open to students who have completed or who are currently enrolled in CS 332. (Letter Grade or Pass/No Pass)

## **EL 333 Introduction to Network Security**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: EL 106 - Networking Essentials 1

A comprehensive overview of network security. General security concepts, communications security, infrastructure security, basics of cryptography, and operational/organizational security will be covered. Prepares students to take the CompTIA Security+ Certification Exam at Prometric or Vue sites. (Fall, Spring) (Letter Grade Only)

## **EL 370 SkillsUSA**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, ARCH 370, AT 370, ET 370, MT 370 or WLDT 370 during the same semester. Participation



in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Fall) (Letter Grade or Pass/No Pass)

## Emergency Medical Services

### EMS 102 First Aid & Safety

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: KIN 101

This course provides American Heart Association (AHA) "Heartsaver" first aid/ cardiopulmonary resuscitation (CPR)/ automated external defibrillator (AED) training as a citizen responder in addition to providing Federal Emergency Management Agency (FEMA) Community Emergency Response Team (CERT) training that will prepare the student to deliver basic emergency care during a disaster prior to the arrival of professional emergency responders. Upon successful completion of the course, the student will receive AHA "Heartsaver" first aid/CPR/AED card as well as a FEMA CERT certificate of completion. This course is not open to students who have received credit for Physical Education 102. (Fall, Spring, Summer) (Letter Grade Only)

### EMS 130 Principles of Emergency Management

#### 3.0 units

Acceptable for credit: Transfer CSU

An introduction to the fundamentals of the emergency management system. Topics include the four phases of the emergency management cycle, community-focused hazard analysis, and the connection between planning and emergency management. This course is not open to students who have completed or who are enrolled in Fire Technology 130. (F,S,U) (Fall, Spring, Summer) (Pass/No Pass)

### EMS 134 Internship Seminar

#### 1.0 unit

Acceptable for credit: Transfer CSU

Corequisite: EMS 149 - Cooperative Work Experience: Occupational ; or CWE 149 - Cooperative Work Experience OCCUPATIONAL

Provides students with a seminar format to discuss, analyze, and critically evaluate their work-based learning experiences. This forum emphasizes job market information, attitudes, and abilities that facilitate job success; skills necessary for maintaining employment and techniques for enhancing job advancement opportunities. (A) (Fall, Spring) (Pass/No Pass)

### EMS 149 Cooperative Work Experience:

#### Occupational

#### 1.0 - 8.0 units

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. NUMBER OF TIMES COURSE CAN BE

REPEATED: Students enrolled in CWE 149 may earn up to 8 units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience course will be included in the 16 unit maximum. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. (Pass/No Pass)

### EMS 199 Special Topics in Emergency Medical Services Training

#### 0.5 - 2.5 units

Acceptable for credit: Transfer CSU

This course satisfies the local, state, or federal requirements for updated and/or mandated training. Basic course or equivalent work experience as appropriate may be required for successful completion of this course. The variable format allows for flexibility of course content to meet the current training needs and provides students with basic and advanced knowledge and skills for continued education. The course is presented in an atmosphere of serious study, using adult learning techniques. (Pass/No Pass)

### EMS 300 Introduction to Emergency Medical Services

#### 1.0 unit

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 514 - Writing Skills 4 or the equivalent

Limitations on Enrollment: Admittance to the program

An exploration of the academic and interpersonal expectations required for successful completion of an entry-level EMS Academy training program as well as graduation requirements and eligibility for admittance to EMS 301. This course is a pre-requisite to EMS 301. (Pass/No Pass)

### EMS 301 Emergency Medical Services Academy-1A

#### 6.0 units

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 514 - Writing Skills 4

Limitations on Enrollment: Admittance to the program

Prerequisite: EMS 300 - Introduction to Emergency Medical Services and completion of or concurrent enrollment in ; EMS 306 - CPR for Healthcare Providers

This beginning-level academy module meets and exceeds the US Department of Transportation Emergency Medical Technician (EMT) National Standard Curriculum for students desiring eligibility for certification as an EMT in the State of California. State certification as an EMT is mandated as the minimum level of emergency medical training required to work on any ambulance and for most fire departments. A uniform and other related material will be required. Enrollment is done through an application process.

This course may be repeated as often as necessary for the purpose of recertification. (Fall, Spring) (Pass/No Pass)

### **EMS 302 EMS Academy 1B (Advanced)**

#### **7.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: Reading level at a minimum of 12th grade level.  
Corequisite: ENVT 156 - First Response Operational  
Prerequisite: EMS 301 - Emergency Medical Services Academy-1A ; or concurrent enrollment in EMS 301 or Emergency Medical Technician 1 Basic Certification.

This Advanced Academy module prepares the student to apply and expand upon the basic EMT skills introduced in the beginning academy module. Topics include: communication and leadership skills, emergency vehicle operations and driving, patient handling and packaging, assisting paramedic partners, street survival issues, automobile extrication, rope rescue, helicopter safety, hazardous materials, preparing to apply for jobs in related field, medical and trauma based scenarios, and physical fitness and agility training. An academy uniform, gym suit, and related materials will be required. (Fall, Spring) (Letter Grade Only)

### **EMS 306 CPR for Healthcare Providers**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Instruction for health-care professionals on cardiopulmonary resuscitation (CPR) and automated external defibrillation techniques according to the current American Heart Association standards. Students successfully completing this course are eligible to purchase an optional American Heart Association Healthcare CPR card. This course may be repeated as necessary to maintain certification. (Fall, Spring, Summer) (Pass/No Pass)

### **EMS 307 Wilderness EMS - First Responder and Survival**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prepares the student to recognize and treat medical emergencies unique to a wilderness or disaster environment. Emphasizes first aid skills and improvisation of emergency equipment. Recommended for emergency responders, outdoor enthusiasts, hikers, and hunters. An hour for hour awarding of CEUs are available for EMT and paramedic. (Fall, Spring) (Pass/No Pass)

### **EMS 309 Pre-hospital Trauma Life Support (PHTLS)**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Presents basic and advanced pre-hospital concepts and skills including rapid assessment of the critical trauma patient, treatment for shock and hypoxemia and rapid transport. Student receives PHTLS certification and 16 hours of CEU's for Emergency Medical Services-1, paramedics and registered nurses. (Fall, Spring) (Pass/No Pass)

### **EMS 310 Child Care First Aid & CPR**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Presents American Red Cross skills necessary to respond to breathing and cardiac emergencies. Pediatric first aid and injury prevention are also covered. The course meets CCR Title-22/CA EMSA requirements for child care providers. Upon successful completion, students will receive an American Red Cross certification in Adult, Infant, Child CPR (valid for 1 year), and a CA Child Care First Aid certificate (valid for 2 years). (Fall, Spring) (Pass/No Pass)

### **EMS 319 Emergency Response To Terrorism**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Enables emergency responders to recognize circumstances and key indicators that may signify a terrorist incident or threat potential. Topics include implementing incident command, self-protective measures, scene security, force protection, and defensive measures associated with biological, nuclear, incendiary, chemical, and explosives incidents. Materials and information relevant to current events on emergency preparedness in terrorist incident management for emergency responders of all disciplines are explored. This course is not open to students who are enrolled in or have received credit for Fire Technology 319. (Pass/No Pass)

### **EMS 320 Emergency Medical Response to Hazardous Material Incidents**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
This course meets the requirements for the State of California CSTI hazardous materials First Responder - Awareness certification and the NFPA 473 standards for a Level-1 EMS responder to hazardous material incidents. Course can be used to meet CEU requirements. (Pass/No Pass)

### **EMS 321 Advanced Cardiac Life Support**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Presents advanced cardiac life support care. American Heart Association ACLS certification and sixteen hours for CEUs for Emergency Medical Technicians-1, paramedics, and registered nurses. (Pass/No Pass)

### **EMS 322 Pediatric Advanced Life Support**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Covers pediatric advanced cardiac life support care. Includes American Heart Association PALS certification and 16 hours of CEUs for Emergency Medical Technicians-1, paramedics, and registered nurses. (S,U) (Spring, Summer) (Letter Grade or Pass/No Pass)

### **EMS 325 Lifeguard Certification**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: American Red Cross requirements for swimming proficiency.  
Instruction in the American Red Cross lifeguard training techniques, first aid and CPR skills required to become a poolside or water park lifeguard. Upon successful completion, a student will earn certifications in both American Red Cross Lifeguard

Training and CPR for the Professional Rescuer. May be repeated as necessary to maintain certification. (Spring) (Pass/No Pass)

### **EMS 328 Wilderness/ EMS Wilderness Travel**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to safe and effective wilderness travel for recreational backpackers as well as emergency response personnel responding to rescue situations in remote/wilderness areas. CEUs available for EMT-1 and paramedics. (Fall, Spring) (Pass/No Pass)

### **EMS 333 Paramedic Theory**

#### **16.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: EMS 302 - EMS Academy 1B (Advanced) ; or Current California EMT-1 (Basic) certification.; and a minimum of six months verified experience as an EMT-1 (Basic) responding to emergency medical responses within the past two years  
Advanced life support training in the emergency medical services career structure covering all techniques of anatomy and physiology. Includes cardiovascular, respiratory, pediatric, OB/GYN and traumatic emergency training. This course meets 320 hours of the 1032 hours required to complete paramedic training in the state of California. Course content is based on the guidelines and authority of Title 22, Division 9, of the California Code of regulations and the U.S. Department of Transportation Emergency Medical Technician-Basic Standard National Curriculum. (Pass/No Pass)

### **EMS 337 Wilderness EMS - Aircraft Search Technology and Techniques**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides basic understanding of the skills required to perform safe and effective aircraft search techniques during a search and rescue operation in a wilderness or remote location. 16 hours of CEU's for Emergency Medical Technician-1 and paramedic are available. (Pass/No Pass)

### **EMS 338 Land Navigation**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of mapping and GPS skills as applied to fire, Haz-Mat and EMS emergency response. Emphasizes interpreting topographic maps and use of both the compass and GPS device. This course is not open to students who are enrolled in or have received credit for Fire Technology 338 or Environmental Technology 338. (Fall, Spring) (Pass/No Pass)

### **EMS 343 Paramedic Clinical Laboratory**

#### **7.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: current CPR Certification for health care provider or professional rescuer

Prerequisite: EMS 333 - Paramedic Theory

The second phase of paramedic training designed to provide supervised clinical application of cognitive knowledge and skills in acute patient care area for the paramedic student. Opportunities

for increasing depth of skill performance and presentation of more advanced skills are provided. (Pass/No Pass)

### **EMS 350 Wilderness EMS - Essentials of Search and Rescue**

#### **3.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Presents essential skills required for safe and effective search and rescue (SAR) operations conducted by SAR, emergency medical and law enforcement personnel responding in wilderness and remote areas. Includes scope and responsibility of SAR field personnel, responding safely to wilderness and remote environments, lost person behaviors, tracking and working with K-9 search teams. Includes sixteen hours of CEU's for emergency medical technicians-1 and paramedics. (Pass/No Pass)

### **EMS 353 Paramedic Field Internship**

#### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: current CPR Certification for health care provider or professional rescuer

Prerequisite: EMS 343 - Paramedic Clinical Laboratory

The third and final phase of paramedic training allows the student to be assigned to an emergency response vehicle with a field preceptor to establish advanced life support patient care responsibilities. Each student must have a minimum of (40) advanced life support contacts during this course. Upon successful completion of this phase of training, the student will become eligible for state certification as an Emergency Medical Technician-Paramedic. (Pass/No Pass)

### **EMS 360 Wilderness EMS - Man Tracking 1**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Develops basic tracking techniques and skills for search and rescue, law enforcement, and emergency medical personnel operating in wilderness and remote areas. Includes tracking and sign cutting techniques tracking equipment, team makeup, maps and GPS use. POST certified and 8 hours of CEU's for emergency medical technicians-1 and paramedics are available. (Pass/No Pass)

### **EMS 378 Wilderness/ EMS—EMT Wilderness Transition**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: EMS 301 - Emergency Medical Services Academy-1A ; and EMS 306 - CPR for Healthcare Providers ; or Current EMT-1 certification and professional rescuer or health care provider CPR certification.

Provides the certified EMT with an understanding of the skills needed to effectively manage an emergency medical response in a remote wilderness area. CEUs available for EMT-1 and paramedics. (Pass/No Pass)

### **EMS 388 Wilderness EMS - Searching with Canine (K-9) Teams**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Provides a basic understanding of the canine (K-9) search and rescue team. Basic history and training of search and rescue (SAR) K-9 teams, as well as necessary skills and techniques used to assist the K-9 handler in the wilderness and remote areas, will be covered. (Pass/No Pass)

### **EMS 401 Emergency Medical Technician 1 (Basic) Refresher**

#### **1.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Repeatable: 99.00

Prerequisite: EMS 306 - CPR for Healthcare Providers ; or Valid EMT-1 Basic certification within the past 4 years. NOTE:

Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalencies for licensure for employment purposes.

This class satisfies the requirements set forth by Title 22, Division 9, of the California Code of Regulations for Emergency Medical Technician 1 (Basic) refresher training. This course may be repeated as often as necessary for the purpose of certification. (Fall, Spring, Summer) (Pass/No Pass)

### **EMS 407 Wilderness EMS – First Responder and Survival Refresher**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Prerequisite: EMS 307 - Wilderness EMS - First Responder and Survival

Satisfies the requirements set forth by Title 22, Division 9 of the California Code of Regulations for Emergency Medical Services. May be repeated as often as necessary for the purposes of certification. (Pass/No Pass)

### **EMS 409 Prehospital Trauma Life Support (PHTLS) Refresher**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Prerequisite: Current PHTLS Certification

Review of prehospital trauma life support basic and advanced concepts and skills. Student receives PHTLS recertification and eight hours of CEUs for emergency medical technicians-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (Pass/No Pass)

### **EMS 410 EMT 1 (Basic) Skills Refresher Module A**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

A review of anatomy, physiology, and medical legal issues for EMT personnel. Satisfies the requirements set forth by Title 2, Division 9 of the California Code of Regulations for Emergency Medical Services. This course may be repeated as necessary for the purposes of certification. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EMS 411 EMT 1 (Basic) Skills Refresher Module B**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

A review of scene size-up, patient assessment, and medical emergencies. Satisfies the requirements set forth by Title 2,

Division 9 of the California Code of Regulations for Emergency Medical Services. This course may be repeated as often as necessary for the purposes of certification. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EMS 412 EMT-1 (Basic) Skills Refresher Module C**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

A review of environmental emergencies and trauma. Satisfies the requirements set forth by Title 2, Division 9 of the California Code of Regulations for Emergency Medical Services. This course may be repeated as often as necessary for the purposes of certification. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EMS 413 EMT-1 (Basic) Skills Refresher Module D**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

A review of didactic and manipulative skills required for EMT-1 Basic recertification. Satisfies the requirements set forth by Title 2, Division 9 of the California Code of Regulations for Emergency Medical Services. This course may be repeated as necessary for the purposes of certification. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **EMS 414 Advanced Cardiac Life Support (ACLS) Refresher**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Repeatable: 99.00

Prerequisite: EMS 321 - Advanced Cardiac Life Support ; or Current American Heart Association ACLS Certification

Review of cardiac life support care. Student receives American Heart Association ACLS recertification and eight hours of CEUs for emergency medical technicians-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (Pass/No Pass)

### **EMS 415 Pediatric Advanced Life Support Refresher**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Repeatable: 99.00

Prerequisite: EMS 322 - Pediatric Advanced Life Support ; or Current American Heart Association PALS Certification

Review of pediatric advanced life support care. Student receives American Heart Association PALS recertification and eight hours of CEUs for emergency medical technicians-1, paramedics and registered nurses are available. May be repeated as necessary to maintain certification. (Pass/No Pass)

### **EMS 461 Medical First Responder Update**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Repeatable: 99.00

Prerequisite: WFT 302 - Basic Incident Command System I-200 Refresher training for first responders to meet CCR, Title 22 mandated training requirements in basic patient care and stabilization at medical emergencies. This course may be repeated as necessary for the purposes of certification. (Pass/No Pass)

## English

### ENGL 100 Writing in Career/Tech Fields

#### 4.0 units

Acceptable for credit: Transfer CSU

A writing course designed primarily to meet the needs of students pursuing career and technical programs. Meets the written composition graduation requirement for an AHC associate's degree. Students who plan to transfer to a four-year institution will need to take ENGL 101 instead of this course to meet the university's first-year composition requirement. Readings will be drawn from the disciplines involved so that students master comprehension and critical reading skills in real-world texts. Writing assignments and projects will similarly be based upon the types of critical thinking and analytical writing required in the students' fields of study. Research methods and skills will be emphasized. (Fall, Spring, Summer) (Letter Grade Only)

### ENGL 101 Freshman Composition: Exposition

#### 4.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 100

Prerequisite: A recommended placement based on the START process or successful completion of; READ 110 - Introduction to Critical Reading ; or ENGL 514 - Writing Skills 4 ; or ENGL 595 - Accelerated Reading and Writing Skills

Designed to help students enhance their analytical reading and writing skills using a wide variety of texts. Emphasizes college-level expository essay construction, communication, and research methods leading to the preparation and writing of a research paper. This course has a prerequisite requiring a placement based on the START process or the successful completion of English 514 or Reading 110 or English 595. (Fall, Spring, Summer) (Letter Grade Only)

### ENGL 102 Freshman Composition Literature

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 120

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Introduces the student to the three major types of creative literature: fiction, drama and poetry, with a view to developing greater critical awareness and polishing the writing skills acquired in ENGL 101. (Fall, Spring, Summer) (Letter Grade Only)

### ENGL 103 Critical Thinking and Composition

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 105

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Designed to fulfill the critical thinking requirement of the Intersegmental General Education Transfer Curriculum. Students will develop critical thinking and reading skills, focusing upon induction, deduction, logical fallacies and close textual analysis. Emphasizes skills application through writing a sequence of argumentative essays. (Fall, Spring, Summer) (Letter Grade Only)

### ENGL 104 Technical Writing

#### 3.0 units

Acceptable for credit: Transfer CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Develops written communication skills for industrial, scientific, and technical fields. Emphasis is placed upon audience analysis; technical formats such as reports, summaries, and proposals; collaborative problem solving; research skills; clarity and conciseness of expression. (Summer) (Letter Grade Only)

### ENGL 105 Language and Culture

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An introduction to the study of language and communication in relation to culture. Focus is on the structure, function and history of language as well as the social, symbolic and practical uses of language. Linguistic concepts, methodologies, and theoretical assumptions will also be explored. This course is not open to students who are enrolled in or have received credit for ANTH 105. (Fall) (Letter Grade or Pass/No Pass)

### ENGL 106 Creative Writing

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
An introduction to the writing of fiction and verse, offered as a creative outlet for students who like to write and as a step toward greater writing proficiency. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### ENGL 107 Literary Arts Journal 1

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 514

In this course, students will begin the process of creating a literary arts journal. This course will offer hands-on training in creating and editing written and visual texts. Students will work cooperatively and explore the role of social media in the literary arts. The course will offer opportunities for publishing students' original works and is appropriate for students who are interested in publishing their work or the work of others. (Fall) (Letter Grade or Pass/No Pass)

### ENGL 108 Literary Arts Journal 2

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 514

In this course, students will publish a literary arts journal. They will create and edit written and visual texts while working cooperatively and will use social media to market and publish original creative works. The course is appropriate for students who are interested in publishing their own work or the work of others. (Spring) (Letter Grade or Pass/No Pass)

### ENGL 109 Applied Composition

#### 1.0 unit

Acceptable for credit: Transfer CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Designed for students who are interested in tutoring or teaching English. Explores the theory and practice of expository writing with a particular emphasis on understanding how people acquire written language competency and on the skills needed to help in the

development of these competencies in others. The lab component affords students the opportunity to observe English teaching and tutoring and to apply skills learned in the course in a supervised tutorial experience. (Letter Grade or Pass/No Pass)

### **ENGL 110 Grammar for College and Career**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: Eligibility for 513

This course provides a comprehensive review of grammar and mechanics for students who want to increase their understanding of the fundamentals of English. Students will learn to recognize grammatical errors in their writing; to reduce the number of misspelled and misused words; and to write clear, correct, and effective sentences. Students may wish to take this course prior to or concurrently with an English composition course. (Summer) (Letter Grade or Pass/No Pass)

### **ENGL 112 Transfer English Composition Skills**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Corequisite: ENGL 101 - Freshman Composition: Exposition

English 112 is designed to provide additional support and practice in academic skills and strategies needed to analyze college-level texts and to write college-level essays. Students are required to enroll in the linked co-requisite English 101 course to take English 112. Students cannot drop English 112 and remain in the ENGL 101 course. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **ENGL 113 Introduction to Critical Reading**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: READ 310 - Reading Skills and Strategies or ENGL 312 or ESL 310; or ENGL 513 - Writing Skills 3

English 113 is designed to equip students with effective reading skills for success in college courses. The emphasis is on improving reading comprehension and developing effective text analysis. Students learn to engage successfully a variety of texts to suit different reading purposes; to develop literal, inferential, and critical comprehension skills; and to analyze, synthesize, and evaluate texts from diverse sources. By practicing critical reading, students will also improve their writing skills. This class serves as a prerequisite for English 101. Lecture: 3 hours per week. Lab: 1 hour per week. This course is not open to students who are enrolled in or have received credit for READ 110 or ESL 110. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENGL 130 American Literature to 1865**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 130

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Surveys American writers and literary movements through 1865. Either one or both semesters of American Literature partially fulfill the humanities requirement of the GE for California State Universities and the University of California. (Fall) (Letter Grade or Pass/No Pass)

### **ENGL 131 American Literature 1865 to Present**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 135

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Surveys American writers and literary movements from 1865 to present. Either one or both semesters of American Literature partially fulfill the humanities requirement of the GE for California State Universities and the University of California. ENGL 130 is not a prerequisite to this course. (Spring, Summer) (Letter Grade or Pass/No Pass)

### **ENGL 132 Literature and Film**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Techniques of literary and film criticism and application of those techniques to films and the literary works inspired them. Emphasis is given to the critical analysis of the transformations that occur when literary forms are adapted for the screen. (Spring) (Letter Grade or Pass/No Pass)

### **ENGL 133 Modern Fiction**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Designed to increase student understanding and enjoyment of modern fiction through a study of selected works by 20th century authors. Selections may vary from semester to semester. English 133 has no geographical boundaries, but includes works by American and English authors, as well as works in translation. (Summer) (Letter Grade or Pass/No Pass)

### **ENGL 135 Introduction to Poetry**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Introduces the study of poetry with emphasis on appreciation, understanding, and interpretation through a critical examination of a variety of poets and poems. (Spring) (Letter Grade or Pass/No Pass)

### **ENGL 137 Children's Literature**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ENGL 514 - Writing Skills 4

A study of poetry, folk and fairy tales, fiction, non-fiction and realistic works for children. Emphasis is on exploring modes for bringing this literature to child audiences. (Spring) (Letter Grade or Pass/No Pass)

### **ENGL 138 Introduction to Shakespeare**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Introduction to Shakespeare in which a number of major works are read, with close attention to language, structure, and historical content. (Spring) (Letter Grade or Pass/No Pass)



## **ENGL 139 Ideas of Difference in Contemporary American Literature**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition

Primarily through the study of literature, this course explores the ways in which ideas about race, ethnicity, gender, sexuality, class, and disability have shaped American identities and influenced the course of 20th century American cultural history. Emphasis on contemporary American cultural texts (novel, autobiography, poetry, journalism, and/or drama; film and/or documentary), although lectures and other class materials will link contemporary culture historical themes or developments. (Spring) (Letter Grade or Pass/No Pass)

## **ENGL 140 Graphic Novel as Literature**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition

This class will examine the emergence of the graphic novel, from the comics of the 1920s, the super hero novels of the 1950s, anime and manga to the current crop of diverse novels gone graphic. It will look at the multicultural nature of the novels, with new novels being produced in a variety of countries; and its subversive intentions. The class will require several papers including a research paper. It will transfer to CSU Long Beach and will fulfill a humanities and multicultural GE requirement. (Fall) (Letter Grade or Pass/No Pass)

## **ENGL 144 Literature: The Ancient and Classical World**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition

An examination of the ancient epics and classical literature of Mesopotamia, Greece, and Rome. Representative readings will include the Epic of Gilgamesh, The Iliad, The Odyssey, Genesis, Antigone, The Aeneid, and Marcus Aurelius Meditations. (Fall) (Letter Grade or Pass/No Pass)

## **ENGL 145 British Literature to 1800**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 160

Prerequisite: ENGL 101 - Freshman Composition: Exposition

A study of the major British writers in the 14th century to the beginning of the Romantic Period around 1800. The course covers the major works of such writers as Chaucer, Shakespeare and Milton, with emphasis on their continuing capacity to talk to us today. (Fall) (Letter Grade or Pass/No Pass)

## **ENGL 146 British Literature 1800 to Present**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGL 165

Prerequisite: ENGL 101 - Freshman Composition: Exposition

A study of the major British writers since 1800. The course covers selected plays, novels, poems and essays from the outstanding writers of the Romantic and Victorian periods and of the 20th

century, including Wordsworth, Shelley, Keats, Browning, Conrad, Yeats, Joyce and Eliot. ENGL 145 is not a prerequisite to this course. (Spring) (Letter Grade or Pass/No Pass)

## **ENGL 148 Hispanic Literature in Translation**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition

An introduction to contemporary Hispanic literature in translation. Readings from Latin America, as well as Hispanic writers in the United States, have been selected. Course will focus on the themes and symbols characteristic of such literature. Cultural differences will be explored. Students will read selected works both critically and analytically. Films and other media may be included. (Fall) (Letter Grade or Pass/No Pass)

## **ENGL 189 Independent Projects**

### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **ENGL 306 Writing Lab**

### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: Enrollment in any Allan Hancock College credit course. Not open to students enrolled in English 511, 512, 513, or 514.

Provides students with individualized writing practice with computer-assisted strategies. Not open to students enrolled in English 300, 501 or any other English course with a lab component. (Fall, Spring, Summer) (Pass/No Pass)

## **ENGL 307 Writing Across the Curriculum 1**

### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides students with instructor-guided individualized writing practice focused on structure and organization. Not open to students currently enrolled in English 511, 512, 513, 514. (Fall, Spring) (Pass/No Pass)

**ENGL 312 Reading Skills and Strategies****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 English 312 uses fiction and nonfiction texts to develop reading skills and strategies. The emphasis is on improving reading comprehension and efficiency and helping students become critical readers. This course is not open to students who are enrolled in or have received credit for READ 310 or ESL 310. (Fall, Spring) (Pass/No Pass)

**ENGL 510 Improving Reading Comprehension****4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Designed to introduce students to reading skills necessary for success in college. Emphasis is on improving reading comprehension and developing vocabulary. This course is not open to students who are enrolled in or have received credit for READ 510 or ESL 510. (Fall, Spring) (Pass/No Pass)

**ENGL 511 Writing Skills 1****4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Prerequisite: a recommended placement based on the START process

This course provides instruction in basic writing, reading, sentence, and vocabulary skills. It is designed for students whose skills have been assessed at four levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. In this course, students summarize and respond to text, compose and develop paragraphs, explore basic sentence patterns, and increase vocabulary. Successful completion of this course advances students into Writing Skills 2. This course requires two lab hours per week that are scheduled, in which students' work includes, but is not limited to, completion of computer-assisted activities and assigned writing, reading, vocabulary, and grammar exercises. (Fall, Spring) (Pass/No Pass)

**ENGL 512 Writing Skills 2****4.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Advisories: READ 510 - Improving Reading Comprehension  
 Prerequisite: A recommended placement based on the START process; or ENGL 511 - Writing Skills 1

This course provides instruction in basic writing, reading, language, and critical thinking skills. It is designed for students whose skills have been assessed at three levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. In this course, students identify key parts of text, apply the writing process to assignments and proofread for errors in their writing. This course requires two lab hours per week that are to be arranged, in which students' work includes, but is not limited to, completion of computer-assisted activities and assigned writing, reading, vocabulary, and grammar exercises. (Fall, Spring) (Pass/No Pass)

**ENGL 513 Writing Skills 3****4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Advisories: READ 310 - Reading Skills and Strategies

Prerequisite: Recommended placement based on the START process; or ENGL 512 - Writing Skills 2

This course provides instruction in basic writing, reading, sentence, and vocabulary skills. It emphasizes writing as process and the relationship between reading and writing skills in composition. It is designed for students whose skills have been assessed at two levels below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. This course requires two lab hours per week that are to be arranged, in which students' work includes, but is not limited to, completion of computer-assisted activities and assigned writing, reading, vocabulary, and grammar exercises. (Fall, Spring) (Pass/No Pass)

**ENGL 514 Writing Skills 4****4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Advisories: READ 110 - Introduction to Critical Reading  
 Prerequisite: A recommended placement based on the START process or successful completion of; ENGL 513 - Writing Skills 3  
 This course provides instruction in writing and reading, and in sentence, vocabulary, and critical thinking skills. Students analyze written and visual texts, with emphasis on close reading and written response. Students who complete this course satisfactorily will be prepared to read college-level texts and write academic essays required at the transfer level. This course is designed for students whose skills have been assessed at one level below transfer, based on the statewide CB21 Coding of English courses sponsored by the Basic Skills Initiative. This course requires two lab hours per week that are to be arranged, in which students' work includes, but is not limited to, completion of computer-assisted activities and assigned writing, reading, vocabulary, and grammar exercises. (Fall, Spring) (Letter Grade or Pass/No Pass)

**ENGL 595 Accelerated Reading and Writing Skills****4.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Prerequisite: Placement based on START process  
 This course is open to any student who places below English 101. It is a demanding course that uses college level material to teach critical reading, thinking and writing skills according to student need. Students who pass this course are eligible for English 101. (Letter Grade or Pass/No Pass)

**Engineering****ENGR 100 Introduction to Engineering****1.0 unit**

Acceptable for credit: Transfer to UC, CSU  
 Advisories: ENGL 514 - Writing Skills 4 or eligibility for ENGL 101  
 This course provides an overview of the engineering profession and educational path in order for students to evaluate engineering as a career choice. The course is also applicable for science, mathematics and architecture majors. The engineering branches are introduced, along with their relationships to science and other fields of study. The education process and strategies for engineering and science students to reach their full academic potential are explored. Course topics include professional duties, responsibilities, employment opportunities, the engineering design process and problem solving. Students will develop a study plan

and research technical topics. Guest speakers include working engineers and university representatives. (Letter Grade or Pass/No Pass)

### **ENGR 124 Excel for Science and Engineering**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Prerequisite: MATH 181 - Calculus 1

An introduction to Excel as used in science and engineering. Students use math operations, functions, statistics and graphs to analyze and display data and to differentiate and integrate. Basic application problems are solved. (Pass/No Pass)

### **ENGR 126 MATLAB for Science and Engineering**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MATH 181 - Calculus 1

An introduction to Matlab as used in science and engineering. Students create and manipulate matrices, program script, and m-files; generate 2-d and 3-d plots; and solve ODEs. Basic application problems are solved. (Pass/No Pass)

### **ENGR 134 Internship Seminar**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Provides students with a seminar format to discuss, analyze, and critically evaluate their work-based learning experiences. This forum will emphasize job market information, attitudes, and abilities that facilitate job success; skills necessary in maintaining employment; and techniques for enhancing job advancement opportunities. (Fall, Spring) (Letter Grade Only)

### **ENGR 152 Statics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 130

Prerequisite: MATH 182 - Calculus 2 ; and PHYS 161 -

Engineering Physics 1 ; or PHYS 141 - General Physics 1

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Optional additional topics include fluid statics, cables, Mohr's circle and virtual work. (Fall) (Letter Grade Only)

### **ENGR 154 Dynamics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 230

Prerequisite: ENGR 152 - Statics ; and MATH 182 - Calculus 2

Fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar motions of rigid bodies; work-energy and momentum principles for rigid body motion; Introduction to mechanical vibrations (optional). (Spring) (Letter Grade Only)

### **ENGR 156 Strength of Materials**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 240

Prerequisite: ENGR 152 - Statics

This course is a study of stresses, strains and deformations associated with axial, torsional and flexural loading of bars, shafts and beams, as well as pressure loading of thin-walled pressure vessels. The course also covers stress and strain transformation, Mohr's Circle, ductile and brittle failure theories, and the buckling of columns. Statically indeterminate systems are also studied. (Spring) (Letter Grade Only)

### **ENGR 161 Materials Science**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 140

Advisories: concurrent enrollment in ENGR 162

Prerequisite: PHYS 161 - Engineering Physics 1 ; and CHEM 150 - General Chemistry 1

This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. (Fall) (Letter Grade Only)

### **ENGR 162 Materials Science Lab**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 140 L

Corequisite: ENGR 161 - Materials Science or prior completion of ENGR 161

Prerequisite: PHYS 161 - Engineering Physics 1 ; and CHEM 150 - General Chemistry 1

Laboratory to parallel ENGR 161. This course is the experimental exploration of the connections between the structure of materials and materials properties. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the lecture course (ENGR 161), to operate testing equipment, to analyze experimental data, and to prepare reports. (Fall) (Letter Grade Only)

### **ENGR 170 Electric Circuit Analysis**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 260

Advisories: concurrent enrollment in ENGR 171

Prerequisite: MATH 184 - Linear Algebra/Differential Equations ; and PHYS 163 - Engineering Physics 3

An introduction to the analysis of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches. Natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. Most

engineering majors are required to complete the associated course (ENGR 171); the laboratory course should be taken concurrently. (Spring) (Letter Grade Only)

### **ENGR 171 Electric Circuit Lab**

**1.0 unit**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: ENGR 260L

Corequisite: MATH 184 - Linear Algebra/Differential Equations ; ENGR 170 - Electric Circuit Analysis or prior completion of ENGR 170

Prerequisite: PHYS 163 - Engineering Physics 3

An introduction to the construction and measurement of electrical circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions. Elementary circuit design. Practical considerations such as component value tolerance and non-ideal aspects of laboratory instruments. Construction and measurement of basic operational amplifier circuits. The associated lecture course (ENGR 170) should be taken concurrently. (Spring) (Letter Grade Only)

## **Entrepreneurship**

### **ENTR 101 Intro to Entrepreneurship**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3

Students will embark on one of the most exciting adventures ever known: launching a business. This course identifies the methods for developing a business idea, starting a business, acquiring resources, and writing a business plan. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENTR 102 Entrepreneurship Projects**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: Eligibility for; ENGL 513 - Writing Skills 3

Students will work with a local entrepreneur to identify business challenges and will develop strategies to solve a business problem(s). A written and oral presentation will be made to the entrepreneur. (Fall) (Letter Grade or Pass/No Pass)

### **ENTR 103 New Venture Laboratory**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: BUS 101 - Introduction to Business ; and CBIS 101 - Computer Concepts & Applications ; and eligibility for; ENGL 513 - Writing Skills 3

Students will participate in a "new venture" laboratory to develop a business idea and use technology to create a marketing plan. They will interact with entrepreneurs, suppliers, customers, and experts in order to create a new venture that may become viable. (Spring) (Letter Grade or Pass/No Pass)

## **Environmental Technology**

### **ENVT 101 Introduction to Environmental Hazardous Materials**

**3.0 units**

Acceptable for credit: Transfer CSU

A general overview of the environmental hazardous materials technology area. The history of pollution leading to current legislation, environmental effects of pollution, and a survey of the regulatory framework will be presented. Career opportunities in the areas of handling and management of hazardous substances will be discussed. (Letter Grade Only)

### **ENVT 150 Hazardous Materials General Site Worker – 40 Hr.**

**2.0 units**

Acceptable for credit: Transfer CSU

Designed to facilitate employer compliance with mandated federal and/or state HAZWOPER General Site Worker training requirements. (Spring) (Letter Grade Only)

### **ENVT 151 Hazardous Materials-Site Supervisor**

**1.0 unit**

Acceptable for credit: Transfer CSU

Prerequisite: ENVT 150 - Hazardous Materials General Site Worker – 40 Hr. ; or Hazardous Waste Operations and Emergency Response (29CCR1910.120/8CCR5194) - 40 Hour training or equivalent as determined by the Coordinator, Environmental Health and Safety program. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

Specialized hazardous waste operations management training including employer's safety and health program, employee training programs, personal protective equipment program, spill containment program, and health hazard monitoring procedures and techniques (Title 8 CCR 5192). Advances the HAZWOPER-General Site Worker trained person to the Site Supervisor level. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 152 Identification and Assessment of Hazardous Materials**

**3.0 units**

Acceptable for credit: Transfer CSU

A comprehensive introduction to the nature of hazardous materials, includes the principles and mechanics of toxicology as applied to the environment and/or chemical properties and characteristics pertaining to hazardous materials. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 153 Industrial Safety**

**1.0 unit**

Acceptable for credit: Transfer CSU

Provides the skills necessary to recognize and prevent health hazards in the workplace. Topics include industrial ventilation, electrical safety, lock-out-tag-out, blood-borne pathogens, powered industrial trucks, and accidental "root cause" investigation. Overviews of OSHA "Injury and Illness Prevention

Program" (IIPP), "Hazard Communication Program", and hazard assessment requirements are presented. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 154 Monitoring and Sampling**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Hazardous substance monitoring and sampling training includes devices calibration requirements, data interpretation, and "chain of custody". Provides students with the practical knowledge to recognize and interpret chemical identification utilizing monitoring equipment and technical references. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 155 Respiratory Protection—Administration**

#### **0.5 units**

Acceptable for credit: Transfer CSU

Basic administrative principles and techniques for establishing and maintaining a respiratory protection program in accordance with 8 CCR 5144 and 29 CFR 1910.134. Students learn to critically analyze and determine appropriate respiratory protection and the associated sanitizing, inspection, and maintenance of respiratory protective equipment to develop and apply a respiratory protection program. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 156 First Response Operational**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Designed to prepare the student to respond to a hazardous materials incident in a safe, defensive and competent manner within the existing resources and to prevent exposures to nearby persons, property and environments. Meets OSHA requirements under Title 8 CCR 5192 and 29 CFR 1910.120. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 157 First Aid for HAZMAT Workers**

#### **1.5 units**

Acceptable for credit: Transfer CSU

Prepares the student to recognize medical emergencies that could occur at work sites involving hazardous materials. Emphasizes basic first aid skills needed to medically support HAZMAT work activities and to treat injuries and illnesses until trained emergency response personnel arrive on the scene. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 158 Hazardous Waste Minimization and Emissions Reduction**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Presents principles of waste reduction and cleaner production processes to reduce chemical and raw material losses, manufacturing costs, and waste generation. Provides students with practical techniques for initiating or expanding pollution prevention programs. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 159 Hazardous Materials and Hazardous Waste Permitting**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Examination of laws, regulations and policies at federal, state, and local levels covering the proper management of hazardous substances from generation to disposal. Includes in-depth examination of state hazardous waste control law requirements on Certified Unified Program Agency (CUPA) regulations for facilities permitting and site management. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 160 Air and Water Pollution Permitting Compliance**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Presents fundamental principles of air and water pollution prevention. Emphasizes the systematic assessment methods of identifying discharges to air and water and the permitting processes that are designed to minimize air and water pollution. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 199 Special Topics in ENVT**

#### **0.5 - 2.5 units**

Acceptable for credit: Non-Transferable

This course satisfies local, state or federal requirements for updated and/or mandated training. Basic course or equivalent work experience as appropriate may be required for successful completion of this course. The variable format allows for flexibility of course content to meet specialized training needs and provides students with knowledge and skills for employment or continued employment in environmental health and safety sectors. Topics will be offered as necessary to maintain currency with environmental health and safety training standards. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 450 HAZWOPER - Refresher 8hr.**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Designed to facilitate employer compliance with regulation (29CFR1910.1209(e)(8), 8CCR5192(e)(8)) requirements, for annual Hazardous Waste Operations and Emergency Response (HAZWOPER) general site worker training. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ENVT 454 Respiratory Protection/QNFT**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

A review of the general requirements of respiratory protection regulations, respirator use, limitations and care of respirators, and respirator quantitative fit testing. Designed to facilitate employer compliance with state and federal respiratory protection regulations. (Letter Grade or Pass/No Pass)

### **ENVT 455 Respirator QNFT/Train the Trainer**

#### **1.0 unit**

Acceptable for credit: C - Credit - Not Degree Applicable

Provides Occupational Safety Officers/Respiratory Protection Program Administrators with regulatory updates and skills necessary to conduct respirator quantitative fit testing (QNFT). Not open to students who are enrolled in or who have completed FT 359 Respirator QNFT/Train the Trainer. (Letter Grade or Pass/No Pass)

## **ENVT 456 FRO Refresher**

### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Designed to facilitate employer compliance with mandated federal and/or state First Responder Operations (FRO) training requirements (29 CFR 1910.120 and 8CCR5192 subpart (q).) (Fall, Spring) (Letter Grade or Pass/No Pass)

## **ENVT 457 FRO Decontamination**

### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
A course designed to advance the first responder's awareness to decontamination procedures. (Pass/No Pass)

## **English As A Second Language**

### **ESL 110 Introduction to Critical Reading**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
Advisories: READ 310 - Reading Skills and Strategies or ENGL 312 or ESL 310; or ENGL 513 - Writing Skills 3  
ESL 110 is designed to equip students with effective reading skills for success in college courses. The emphasis is on improving reading comprehension and developing effective text analysis. Students learn to engage successfully a variety of texts to suit different reading purposes; to develop literal, inferential, and critical comprehension skills; and to analyze, synthesize, and evaluate texts from diverse sources. By practicing critical reading, students will also improve their writing skills. This class serves as a prerequisite for English 101. Lecture: 3 hours per week. Lab: 1 hour per week. This class is not open to students who are enrolled in or have received credit for READ 110 or ENGL 113. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ESL 310 Reading Skills and Strategies**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
ESL 310 uses fiction and nonfiction texts to develop reading skills and strategies. The emphasis is on improving reading comprehension and efficiency and helping students become critical readers. This course is not open to students who are enrolled in or have received credit for ENGL 312 or READ 310. (Fall, Spring) (Pass/No Pass)

### **ESL 510 Improving Reading Comprehension**

#### **4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
Designed to introduce students to reading skills necessary for success in college. Emphasis is on improving reading comprehension and developing vocabulary. This course is not open to students who are enrolled in or have received credit for READ 510 or ENGL 510. (Fall, Spring) (Pass/No Pass)

### **ESL 537 Intermediate Reading for ESL**

#### **4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
This course is designed to help intermediate ESL students develop academic reading skills. Emphasis is on developing reading comprehension, vocabulary, and fluency. Students will read a

variety of text types (e.g., short stories, newspaper articles, novels, and nonfiction pieces). This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 4 hours per week. Lab: 1 hour per week. (Fall, Spring) (Pass/No Pass)

### **ESL 538 Intermediate Writing for ESL**

#### **4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
This course is designed to help intermediate ESL students develop academic writing skills in response to a variety of readings. Instruction is provided in the following areas: reading and analyzing texts; forming and supporting opinions based on readings; and drafting and revising writing. Organization, grammar, vocabulary development, and mechanics at the paragraph and short essay level will also be addressed. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 4 hours per week. Lab: 1 hour per week. (Fall, Spring) (Pass/No Pass)

### **ESL 540 Advanced Reading for ESL**

#### **4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
This course is designed to help advanced ESL students develop academic reading skills. Emphasis is on developing reading comprehension, vocabulary, and fluency. Students will read a variety of text types (e.g., short stories, newspaper articles, novels, and nonfiction pieces). This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 4 hours per week. Lab: 1 hour per week. (Fall, Spring) (Pass/No Pass)

### **ESL 541 Advanced Writing for ESL**

#### **4.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
This course is designed to help advanced ESL students develop academic writing skills in response to a variety of readings. Instruction is provided in the following areas: reading and analyzing texts; forming and supporting opinions based on readings; and drafting and revising writing. Organization, grammar, vocabulary development, and mechanics at the paragraph and essay level will also be addressed. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 4 hours per week. Lab: 1 hour per week. (Fall, Spring) (Pass/No Pass)

### **ESL 543 Intermediate Conversation for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
This course prepares students to understand and speak English at the intermediate level. In this course, students develop



communicative competence by engaging in a variety of listening and speaking activities. Students will participate in interviews, small group discussions, and presentations. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 544 Advanced Conversation for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

This course prepares students to understand and speak English at the advanced level. In this course, students continue to develop communicative competence by engaging in a variety of listening and speaking activities. Students will participate in interviews, small group discussions, and presentations. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 550 Fundamentals of Grammar**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

This course is designed to help students use beginning grammatical forms in reading, writing, and oral/aural contexts. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 3 hours per week. Lab: 1 hour per week. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 551 Intermediate Grammar for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

This course is designed to help students understand and use intermediate grammatical forms in reading, writing, and oral/aural contexts. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 3 hours per week. Lab: 1 hour per week. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 552 Advanced Grammar for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

This course is designed to help students understand and use advanced grammatical forms in reading, writing, and oral/aural contexts. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. Lecture: 3 hours per week. Lab: 1 hour per week. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 555 Pronunciation for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

A pronunciation skills course for all levels of ESL students. This course introduces students to Standard American English consonant and vowel sounds, stress, and intonation. Students will practice listening discrimination and production skills at the segmental and suprasegmental levels. (Fall, Spring, Summer) (Pass/No Pass)

### **ESL 572 Public Speaking for ESL**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Advisories: ESL 544 - Advanced Conversation for ESL

Designed to help students better organize their ideas and improve their ability to speak standard American English. Oral communication skills and language fluency are improved through group and individual speaking activities and assignments. (Fall, Spring) (Pass/No Pass)

## **Engineering Technology**

### **ET 100 Computer Aided Drafting and Design**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to computer-aided drafting and design (CADD) which covers operation of a computer graphics terminal (specifically AutoCAD) to create, modify, delete, transfer, and plot graphic files used to produce complete engineering drawings. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ET 104 Introduction to Robotics and Mechatronics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to robotic control applications. Basic electronics including digital, analog, and microcontroller devices, sensors and transducers, and actuators will be emphasized for automation control. Topics include Basic, Assembly and C language programming for robotic control; interfacing of indicators, switches, sensors and transducers; controlling motion and motors; monitoring and measurement of rotation; measuring light, temperature and conductance; application of navigation and measurement techniques; remote control applications; mechanical systems; and the control of frequency and sound. This course is not open to students who are enrolled in or have received credit for CEL 104 or EL 104. (Fall, Spring) (Letter Grade Only)

### **ET 117 Print Reading and Interpretation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introductory class where students will learn to read engineering drawings, evaluate print specifications, recognize orthographic views and visualize the actual objects or projects shown in the illustration. This course is not open to students who are enrolled in or have received credit for, AB 330, AT 330, ET 330, MT 330, or AT/AB/MT 117. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **ET 128 Intro to Renewable Energy**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics ; or EL 104 or ET 104

A study of the principles behind energy generation and conversion that can be applied to modern electrical, mechanical, and chemical devices that use or produce power. Special emphasis will be given to the study of electricity as a renewable energy source. This course is not open to students who are enrolled in or have received credit for EL 128 or CEL 128. (Letter Grade Only)

## **ET 131 Programmable Logic Controllers and Control Design**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 125 - Digital Devices and Circuits

A study of the purpose and operating features of a programmable logic controller (PLC). Topics include PLC terminology, architecture, input/output modules, memory, commands for internal relays, on/off timers, up/down counters, use of subroutines, program control, and math instructions. Relay schematics, ladder logic diagrams, and programming of logic controllers are emphasized. Sensing devices and time-driven process sequences will be studied and integrated into control systems. This course is not open to students who are enrolled in or have received credit for CEL 131 or EL 131. (Letter Grade Only)

## **ET 133 Mechatronic Systems 1**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: CEL 104 - Introduction to Robotics and Mechatronics or EL 104 or ET 104

This is a hands-on mechatronic systems course that focuses on the electro-mechanical concepts (mechanics, electronic, and programming) of automated systems. Emphasis is placed on how industrial grade sensors and transducers function and upon how they are interfaced into control systems. Study topics include: transducers and sensors for light, heat, motion, pressure, and position control; switching devices; input and output signal conditioning; continuous, closed-loop, and proportional integral derivative process control; and safety. This course is not open to students who have received credit for or are enrolled in CEL 133 or EL 133. (Letter Grade Only)

## **ET 139 Electrical Power, Motors, and Controls**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: EL 122 - Electronic Devices and Circuits ; and EL 125 - Digital Devices and Circuits

A study of electronics, signal communication and power technology that support efficient manufacturing processes for various industries. Topics include motors, their drives and controls, power electronics, PLCs, and communications networks used to monitor industrial processes. This course is not open to students who are enrolled in or have received credit for CEL 139 or EL 139. (Letter Grade Only)

## **ET 140 Engineering Drawing**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ET 100 - Computer Aided Drafting and Design

The principles and application of engineering drawing, including orthographic projections, freehand sketching, pictorial drawings, engineering lettering, dimensioning, sections, auxiliary, surface finish, standard and geometric tolerancing, threads, and fasteners are the core of this course. A computer aided drafting system (CAD) will be used extensively by the student to complete the requirements of this course. (Fall) (Letter Grade Only)

## **ET 145 Advanced Engineering Drawing**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: ET 140 - Engineering Drawing

Use of advanced technical drawing techniques on a CADD system to solve design component problems requiring details and assemblies. The course covers freehand sketching to develop ideas, fabrication and working drawings dimensioned to ANSI standards, including tolerances, title blocks, change orders, symbols and notes. Use of handbooks, ordinances, codes, selection of hardware and materials will be incorporated in each student's individual project. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **ET 160 Digital Tools in Architecture**

### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ARCH 111 - Architectural Graphics & Design I

Introduces computer design and presentation skills for architecture students. Topics include image editing, page layout and 3D modeling. This course is not open to students who are enrolled in or have received credit for Architecture 160. (Letter Grade or Pass/No Pass)

## **ET 162 Fluid Power and Control**

### **2.0 units**

Acceptable for credit: Transfer CSU

An introduction to the generation, control and basic applications of hydraulics and pneumatics force and motion systems. Topics include safety, properties of and forces in liquids, pumps, motors, valves, reservoirs, strainers, filters, accumulators, basic diagramming, system design and troubleshooting. This course is not open to students who are enrolled in or have received credit for CEL 162 or EL 162. (Letter Grade Only)

## **ET 189 Independent Projects in Engineering Technology**

### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search or development of skills and competencies under faculty advisement and supervision. Independent Projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be issued no later than the end of the second week of the semester. Units are awarded depending upon satisfying performance and the amount of time committed by the students to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **ET 370 SkillsUSA**

### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, ARCH 370, AT 370, EL 370, MT 370 or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Letter Grade or Pass/No Pass)

### **ET 389 Independent Projects**

**0.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Acceptable for credit: CSU, UC-Determined after admission Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **Fashion**

### **FASH 101 Fashion Industry and Marketing**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU  
Explores all levels of the fashion industry including marketing, job market analysis, and careers. Core components are the development of fashion goods; fashion meaning and terminology; primary markets of materials including textiles, trims, leather, and fur; secondary markets of design and production of apparel, accessories, and cosmetics. Retail market level including domestic, regional and foreign markets, global sourcing, strategies in fashion retailing; and the auxiliary level of supporting services. Course not open to students who enrolled in and received credit for FCS 137. (Fall) (Letter Grade or Pass/No Pass)

### **FASH 102 Fashion Design Analysis**

**3.0 units**

Acceptable for credit: Transfer CSU  
Advisories: Eligibility for ENGL 101  
Apparel selection for the individual and society based on socio-psychological influences such as culture, history, design elements

and principles, space and body analysis, coordination, and purchasing guidelines. Course not open to students who took and received credit for FCS 138. (Spring) (Letter Grade or Pass/No Pass)

### **FASH 103 Textiles**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU  
Advisories: ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

A consumer-oriented analysis of textile products used in the apparel and interiors industries today, including fibers, yarn, construction, fabric construction, dyeing, finishing, and labeling. Emphasis is on selection, performance, suitability, and care of textiles. Career opportunities as well as environmental and legal issues are discussed. Course not open to students who took and received credit for FCS 139. (F) (Fall) (Letter Grade or Pass/No Pass)

### **FASH 104 Historic Fashion/Costume**

**3.0 units**

Acceptable for credit: Transfer CSU

A study of period costume, its relationship to the political and social conditions of the times, evolution from related arts, and influence on modern dress. Designed for students of fashion, theater arts, and merchandising. Course not open to students who took and received credit for FCS 144. (S) (Spring) (Letter Grade or Pass/No Pass)

### **FASH 110 Apparel Construction 1**

**3.0 units**

Acceptable for credit: Transfer CSU  
Advisories: BASK 7011A - Basic Math ; and HOEC 7100A - Beg Clothing Construction

An introduction to the fashion industry and potential employment opportunities. Presents processes, principles, and techniques for constructing woven garments with the single needle machine, industrial single needle machine, and overlock serger machine. Emphasizing current custom and industrial techniques, including fit and care. Course not open to students who enrolled in and received credit for FCS 140. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Family And Consumer Science**

### **FCS 120 Principles of Foods 1**

**4.0 units**

Acceptable for credit: Transfer CSU  
Advisories: MATH 521 - Foundations of Mathematics  
Provides knowledge and experience in food preparation terminology, equipment, and techniques to increase proficiency, coupled with investigation of the science principles involved. Emphasis is on ingredient functions and interactions; production and sensory evaluation standards; food safety and sanitation; nutrient composition; and food aesthetics and presentation. Content includes recipe and menu development, stocks, sauces, meat, poultry, fish and shellfish. This course is not open to students who have received credit for CA 120. (Fall, Spring) (Letter Grade Only)

## **FCS 130 Consumer and Family Finance**

### **3.0 units**

Acceptable for credit: Transfer CSU

Designed to assist individuals and/or those working with individuals to analyze and direct their financial affairs. Elements and concepts of financial planning and decision making in the areas of budgeting, taxes, borrowing, money management, consuming, insurance, investments, retirement, and estate planning will be analyzed with an emphasis on application to changing family needs. This course is not open to students who are enrolled in or have received credit for BUS 130 or ECON 130. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## **FCS 131 Life Management**

### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 513

Provides individuals with skills for understanding and using internal and external resources to function effectively in our present and future society. Major topics include: effects of cultural forces and future trends on values, standards, and goals; skills for decision making, time, energy, stress, and conflict management; and techniques for improving self-understanding and interpersonal relationships in a culturally diverse society. Students who have received credit for more than three life management modules may not enroll in this course. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **FCS 149 Cooperative Work Experience: Occupational**

### **1.0 - 8.0 units**

Acceptable for credit: Limited transfer to CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours OR CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## **FCS 170 Interior Design**

### **3.0 units**

Acceptable for credit: Transfer CSU

Fundamentals of interior design and furnishings including application of the elements and principles of color and design, space planning, selection, and arrangement of decorative

materials, and the organized selection of furnishings and materials. Involves solving individual design problems, considers consumer and socioeconomic factors, and includes graphic materials and drafting skills used in the organization and presentation of projects. (Fall) (Letter Grade or Pass/No Pass)

## **FCS 171 Interior Design Materials**

### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: An ability to use the basic math skills of addition, subtraction, division, and multiplication of positive whole numbers and fractions is needed.

Analyzes and evaluates products and materials used in interior design, and applies selection criteria to their specific uses. Emphasis is placed on cost, estimations, and resources for furniture, floor and wall coverings, window treatments, architectural finishes, lighting fixtures, and accessories. (S) (Spring) (Letter Grade or Pass/No Pass)

## **FCS 189 Independent Projects**

### **0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **FCS 199 Special Topics in Family & Consumer Sciences**

### **0.5 - 3.0 units**

Acceptable for credit:

-(Letter Grade or Pass/No Pass)

## **Film**

## **FILM 101 Film as Art and Communication**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to a variety of international film styles, themes, and directors, as well as to the art of the documentary and experimental film. Emphasis is placed on ways films communicate through acting, photography, sound, and editing. (Fall) (Letter Grade or Pass/No Pass)

**FILM 102 Hollywood and the American Film****3.0 units**

Acceptable for credit: Transfer to UC, CSU

The development of American film through critical appraisal of major directors' works from both the sound and silent eras. The films examined are representative of their directors as artists and of major social, cultural and aesthetic movements within the film industry and country. (Letter Grade or Pass/No Pass)

**FILM 103 Contemporary Latin American Film****3.0 units**

Acceptable for credit: Transfer to UC, CSU

A study of recent Latino cinema in the Americas in a historical and cultural context. Representation of Latino culture is examined in the context of the global Hollywood structure and in light of various national cinemas. Major social, cultural and aesthetic movements within Latino cinema are explored. (Spring) (Letter Grade or Pass/No Pass)

**FILM 104 Documentary Studies****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

An examination of the documentary form, its impact on culture and society, and its artistic development from the early days of motion pictures through the modern era. (Letter Grade or Pass/No Pass)

**FILM 105 Film and Television Writing 1****3.0 units**

Acceptable for credit: Transfer CSU

A study of the technique of screenwriting for the conventional narrative film and for television. Students are required to complete writing exercises, outlines, character sketches and short screenplays. (Fall, Spring) (Letter Grade Only)

**FILM 106 Film and Television Writing II****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: FILM 105 - Film and Television Writing 1

An advanced course in which students will gain professional insight into scriptwriting techniques for film and television. Designed to provide students with the skills needed for scripting complex narrative stories. (Fall, Spring) (Letter Grade or Pass/No Pass)

**FILM 107 History of World Cinema****3.0 units**

Acceptable for credit: Transfer to UC, CSU

An historical examination of cinema from around the world as well as the personalities, cultures, and social conditions that have contributed to the art form. Comparison and contrast to the Hollywood model will result from critical screenings and class discussions. (Letter Grade or Pass/No Pass)

**FILM 108 Film and Television in the 21st Century****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

This course deals with the social, institutional and cultural background of film and television in the United States and

in a broader global context. Students will develop a critical understanding of film and TV content. (Fall) (Letter Grade or Pass/No Pass)

**FILM 109 Contemporary Asian Cinema****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

This course provides an introduction to the art and industry of Asian cinema. The course will explore the unique traditions of selected national cinemas from East, South and South-East Asia. Against the backdrop of globalization, we will explore the unique aesthetics of Asian film production. (Fall) (Letter Grade or Pass/No Pass)

**FILM 110 Introduction to Motion Picture and Video Production****4.0 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

An introduction to film and video production techniques including cinematography, sound, recording, and video editing. Students make a variety of short video projects that involve narrative story telling and documentary filmmaking techniques. No personal equipment required. It is recommended that students enroll in FILM 380 for additional lab time. (Fall, Spring) (Letter Grade or Pass/No Pass)

**FILM 111 Intermediate Motion Picture and Video Production****4.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: FILM 110 - Introduction to Motion Picture and Video Production

A study of skills necessary for independent filmmaking. The development of short narrative and documentary projects utilizing field production and conventional set techniques is emphasized. Topics include basic production and post-production techniques including, scriptwriting, cinematography, sound recording and non linear editing. (Spring) (Letter Grade or Pass/No Pass)

**FILM 115 Intro To Animation****3.0 units**

Acceptable for credit: Transfer CSU

An introduction to animation production including classical character animation and nontraditional techniques. This course is not open to students who are enrolled in or have received credit for Art 115 or MMAC 115. (Fall) (Letter Grade or Pass/No Pass)

**FILM 116 Intermediate Animation****3.0 units**

Acceptable for credit: Transfer CSU

A continuation of FILM 115, emphasizing the development and refinement of animation skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have received credit for MMAC 116. (Fall, Spring) (Letter Grade or Pass/No Pass)

**FILM 117 3D Computer Animation 1****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 111 - Digital Imagery Lab ; or GRPH 112 - Digital Imagery ; or FILM 110 - Introduction to Motion Picture and Video Production

An introduction to 3D modeling and animation, using professional software to create characters, assets and animation on the computer. This course is not open to students who are enrolled in or who have received credit for MMAC 117. (Fall) (Letter Grade or Pass/No Pass)

### **FILM 118 3D Computer Animation 2**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: FILM 117 - 3D Computer Animation 1 ; or MMAC 117 - 3D Computer Animation 1

An intermediate course in 3D computer animation that reproduces the industry work environment for production of animation projects and show reels. This course is not open to students who have completed or who are enrolled in MMAC 118. (Fall) (Letter Grade or Pass/No Pass)

### **FILM 119 Great Directors of the Cinema**

**3.0 units**

Acceptable for credit: Transfer CSU

This class offers a survey of the world's best film directors. Emphasis is given to directors working since 1965. (Letter Grade or Pass/No Pass)

### **FILM 120 Introduction to Sound Recording and Mixing**

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the equipment, terminology and procedures of sound engineering. Combines lectures and demonstrations with hands-on use of equipment. Students will have the opportunity to use professional sound recording and processing equipment in various recording and mix-down situations. This course is not open to students who are enrolled in or have received credit for Music 115. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **FILM 121 Sound Production Techniques**

**3.0 units**

Acceptable for credit: Transfer CSU

Explores the digital audio software for recording music and computer-based multi-track sound recording for producing audio for video projects, as well as the use of digital signal processors for mixing and mastering recordings. This course is not open to students who have received credit for or who are currently enrolled in Music 116. (Letter Grade or Pass/No Pass)

### **FILM 123 Directing for the Camera**

**2.0 units**

Acceptable for credit: Transfer CSU

Advisories: FILM 110 - Introduction to Motion Picture and Video Production

The study and practice of the skills and procedures involved in directing short narrative films. (Spring) (Letter Grade or Pass/No Pass)

### **FILM 125 Computer Video Editing**

**3.0 units**

Acceptable for credit: Transfer CSU

Presents non-linear video editing including combining clips and digital source materials, editing digital movies, and preparing digital movies for the web. Not open to students who are enrolled in or have received credit for MMAC 125. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **FILM 126 Introduction to Motion Graphics**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 111 - Digital Imagery Lab ; and GRPH 112 - Digital Imagery

Explores new digital approaches for creating and compositing powerful visual imagery for use in film/video, multimedia, and design. Includes integration of graphics, video, text, and sound on desktop computers. This course is not open to students who are enrolled in or have completed MMAC 126. (Fall) (Letter Grade or Pass/No Pass)

### **FILM 127 Digital Video Post-Production**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: MMAC 125 - Computer Video Editing or FILM 125

This class is for students who wish to expand their digital video post production skills and learn to present and publish digital work on emerging media platforms. The course covers advanced non-linear video editing, digital effects and filters, color correction, and compression for distribution over the Internet and to mobile devices such as tablets and cellular phones. The class is a lecture/lab combination with lab work on Apple computers using current Final Cut Pro and Adobe Creative Suite software . Not open to students who are enrolled in or have received credit for MMAC 127. (Spring) (Letter Grade or Pass/No Pass)

### **FILM 128 Intermediate Motion Graphics**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: FILM 126 - Introduction to Motion Graphics ; or MMAC 126 - Introduction to Motion Graphics

Intermediate study in motion graphics utilizing current industry standard software. Emphasizes the expansion and refinement of digital visual effects skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have completed MMAC 128. (Fall) (Letter Grade or Pass/No Pass)

### **FILM 129 Documentary Production**

**2.0 units**

Acceptable for credit: Transfer CSU

Advisories: FILM 110 - Introduction to Motion Picture and Video Production

The examination and practice of producing a short documentary film. Students will learn to conduct research and pre-interviews, develop an outline, conduct on-camera interviews, and shoot coverage shots. As an advisory, it is suggested that students have taken FILM 110. It is recommended that students enroll in FILM 380 for additional lab time. (Letter Grade or Pass/No Pass)



**FILM 179A Documentary Production****2.0 units**

Acceptable for credit:

Advisories: FILM 110 - Introduction to Motion Picture and Video Production

The examination and practice of producing a short documentary film. Students will learn to conduct research and pre-interviews, develop an outline, conduct on-camera interviews, and shoot coverage shots. As an advisory, it is suggested that students have taken FILM 110. (Letter Grade or Pass/No Pass)

**FILM 189 Independent Projects in Film****1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

**FILM 199 Special Topics in Film****3.0 units**

Acceptable for credit: Transfer CSU

Courses focusing on specific film or video practices, equipment, or subject matter which are not covered in detail in the existing program. (Letter Grade or Pass/No Pass)

**FILM 199A Special Topics in Film****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: ENGL 514 - Writing Skills 4

An examination of the life, work, and controversy surrounding famed cinema director, Alfred Hitchcock. Students gain historical, social and artistic perspective through critical screenings and selected readings. (Letter Grade or Pass/No Pass)

**FILM 380 Film Production Lab****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: FILM 110 or FILM 111 or FILM 113 or FILM 116 or FILM 117 or FILM 118 or FILM 120 or FILM 123 or FILM 125 or FILM 179

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

**FILM 381 Film Post Production Lab****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: FILM 114 or FILM 125 or FILM 126 or FILM 127

Open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

**FILM 386 Film Festival Production Lab****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Students work closely with instructor to plan for and produce the annual Allan Hancock College Film Festival. This annual event provides the opportunity for Allan Hancock College Film and Video students to screen their work in a theater setting open to the public. (Fall, Spring) (Letter Grade or Pass/No Pass)

**French****FRCH 101 Elementary French I****5.0 units**

Acceptable for credit: Transfer to UC, CSU

This course is an introduction to the French language, presenting students with the basic skills for vocabulary and grammar recognition and use, as well as stressing pronunciation, oral skills, reading, and writing at the elementary level. Using a communicative style, students practice French grammar and vocabulary, sentence structure, and oral skills [listening and speaking]. This course also includes an introduction to cultural aspects of the French-speaking world. <UL><LI>Lecture: 5 hours per week. </UL> (Letter Grade or Pass/No Pass)

**FRCH 102 Elementary French II****5.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: FRCH 101 - Elementary French I ; or two years of high school French.

This course is a continuation of FRCH 101, presenting students with the basic skills for vocabulary and grammar recognition and use, as well as stressing pronunciation, oral skills, reading, and writing at the elementary level. Using a communicative style, students practice French grammar, sentence structure, vocabulary, and oral skills [listening and speaking]. This course also includes cultural aspects of the French-speaking world. <UL><LI>Lecture: 5 hours per week. </UL> (Letter Grade or Pass/No Pass)

**FRCH 189 Independent Projects****0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and

submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## Food Science And Nutrition

### FSN 109 Basic Nutrition for Health

#### 3.0 units

Acceptable for credit: Transfer CSU

An overview of basic nutrition which emphasizes the application of nutrition science to consumer choices for improved health, fitness, and disease prevention. Individuals will assess their own diet quality and will learn to select diets appropriate to their individual lifestyles, inherited health risks, tastes, and needs at all stages of the life cycle. The course examines current controversies and claims to distinguish fact from fallacy and assists in adapting research on diet and health to individual needs. The course is not open to students who are enrolled in or have received credit for FCS 109. (Fall, Spring) (Letter Grade or Pass/No Pass)

### FSN 110 Nutrition Science

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: NUTR 110

Advisories: ENGL 514 - Writing Skills 4 ; or Recommended placement in ENGL 101 based on the START process

This course covers the science of foods and the nutrients they contain, and of their actions within the body. Emphasis is placed on individual dietary needs, current nutrition and health issues, and application of evidence-based nutrition information. Students utilize computer software to analyze personal diet records and plan healthful meals. (Letter Grade or Pass/No Pass)

### FSN 112 Nutrition, Weight Management & Eating Disorders

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Examines the nutritional, psychological, and physiological factors which lead to healthy and unhealthy weight management strategies; the extent of obesity and eating disorders in America; and their consequences and prevention. Guidelines for assessing body composition, health status, and dietary and activity patterns will be applied to the individual, with an intent to gain skill in planning, implementing, and evaluating healthy weight management strategies. Emphasis will be given to applying these skills in diverse counseling situations. This course is not open to students who are enrolled in or have received credit for FCS 112. (Spring) (Letter Grade or Pass/No Pass)

### FSN 132 Introduction To Culinology Professions

#### 1.0 unit

Acceptable for credit: Transfer CSU

Advisories: ENGL 512 - Writing Skills 2

Orientation to careers in dietetics, nutrition science, food science, culinary arts and management, hospitality, food service management, and Culinology®. Career portfolios, professional organizations and publications will be covered. Educational plans will be developed in conjunction with counseling personnel. (Fall) (Letter Grade or Pass/No Pass)

### FSN 133 Introduction To Food Science

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Prerequisite: CHEM 120 - Introductory Chemistry

Food science is the scientific study of raw food materials and their behavior during formulation, processing, packaging, and storage. Food processing technologies and the government regulation of food processing and labeling are examined. Products are evaluated through sensory analysis, with objective assessment of the factors that affect product quality. The scientific method is emphasized throughout the course. (Spring) (Letter Grade or Pass/No Pass)

### FSN 134 Food, Nutrition Customs and Culture

#### 4.0 units

Acceptable for credit: Transfer CSU

Advisories: CA 120 - Principles of Foods 1 ; and CA 124 -

Sanitation, Safety, and Equipment

This course explores the socio-economic, psychological, and anthropological perspectives of traditional and contemporary food preparation within various cultures, with an emphasis on American, African, Asian, Middle Eastern, European, and Latin American regions. Students learn about food and culture in lecture, and apply this learning in lab through the preparation and tasting of foods and beverages representative of various cultures and regions. Global food issues, sanitation and safety practices are addressed. This course is not open to students who are enrolled in or have received credit for FCS 134. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Fire Technology

### FT 101 Fire Protection Organization

#### 3.0 units

Acceptable for credit: Transfer CSU

Provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services, fire departments as part of local government; laws and regulations affecting fire services, fire service nomenclature, specific protection functions, basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. (Fall, Spring) (Letter Grade or Pass/No Pass)

### FT 102 Fire Prevention Technology

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: Completion of or concurrent enrollment in; FT 101 - Fire Protection Organization

Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems. (Letter Grade Only)

### **FT 103 Fire Protection Equipment and Systems** **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Completion of or concurrent enrollment in; FT 101 - Fire Protection Organization

Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers. (A) (Letter Grade Only)

### **FT 104 Building Construction for Fire Protection** **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Completion of or concurrent enrollment in; FT 101 - Fire Protection Organization

A study of the components of building construction that relates to fire safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires. The development and evolution of building and fire codes will be studied in relationship to past fires in residential, commercial, and industrial occupancies. (A) (Letter Grade Only)

### **FT 105 Fire Behavior and Combustion** **3.0 units**

Acceptable for credit: Transfer CSU

Corequisite: Completion of or concurrent enrollment in

Prerequisite: FT 101 - Fire Protection Organization

This course of study presents theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques. (A) (Letter Grade Only)

### **FT 106 Principles of Fire & Emergency Safety & Survival** **3.0 units**

Acceptable for credit: Transfer CSU

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. (Letter Grade or Pass/No Pass)

### **FT 107 Apparatus and Equipment** **3.0 units**

Acceptable for credit: Transfer CSU

This course exposes the student to mechanized equipment operated by the men and women of the fire service and regulations pertaining to their use. Subject matter includes: driving laws, driving techniques, construction and operation of pumping engines, ladder

trucks, aerial platforms, specialized equipment and apparatus maintenance. (U) (Summer) (Letter Grade Only)

### **FT 111 Develop A Personal Philosophy of Leadership**

**2.0 units**

Acceptable for credit:

This is the first of four courses in the Public Safety Leadership and Ethics Program that centers on the students introspective look at what makes a good leader and setting a plan to personally move in that direction. (Letter Grade Only)

### **FT 112 Leading Others**

**1.5 units**

Acceptable for credit:

Prerequisite: FT 111

Training courses focusing on specialized fire technology topics. Topics will be identified on a periodic basis in conjunction with employment or program/discipline needs. (Letter Grade Only)

### **FT 113 Organizational Leaderships**

**2.0 units**

Acceptable for credit:

Prerequisite: FT 112

Training courses focusing on specialized fire technology topics. Topics will be identified on a periodic basis in conjunction with employment or program/discipline needs. (Letter Grade Only)

### **FT 130 Principles of Emergency Management**

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the fundamentals of the emergency management system. Topics include the four phases of the emergency management cycle, community-focused hazard analysis, and the connection between planning and emergency management. This course is not open to students who have completed or who are enrolled in Emergency Medical Services 130. (F,S,U) (Fall, Spring, Summer) (Letter Grade Only)

### **FT 149 Cooperative Work Experience: Occupational**

**1.0 - 8.0 units**

Acceptable for credit:

- (Letter Grade or Pass/No Pass)

### **FT 307 Firefighter I Academy IA**

**6.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: EMT Basic or Paramedic or Public Safety First Aid and CPR as defined by California Health and Safety Code, Section 1797.182 NOTE: Approval of equivalent training is not a

guarantee state regulatory or licensing agencies will also grant equivalency.

Technical and manipulative training in concepts of fire department organization and operations. Includes fire behavior, ICS, building construction, safety, rescue, ropes and knots, ladders, low angle rope rescue, hose and appliances, personal protective equipment, and accountability. (Fall, Spring) (Letter Grade Only)

**FT 308 Firefighter I Academy IB****6.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: FT 307 - Firefighter I Academy IA

Technical and manipulative training in concepts of fire department organization and operations. Includes hazardous materials, wildland, fire protection systems, fire investigation, tactics, ladders, loss prevention, oil fire/LPG control, forcible entry. (F,S) (Letter Grade Only)

**FT 310 Fire Service Physical Fitness****2.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Advisories: Concurrent enrollment in; FT 307 - Firefighter I Academy IA

Explores the physical demands of the fire service and provides the correct training practices to meet those physical demands. (Letter Grade Only)

**FT 319 Emergency Response to Terrorism****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: California State Fire Training certification standards require candidate to have met educational requirements for Fire Fighter I prior to Fire Officer (Level 1 and II) certification or equivalent. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Enables emergency responders to recognize circumstances and key indicators that may signify a terrorist incident or threat potential. Topics include implementing incident command, self-protective measures, scene security, force protection, and defensive measures associated with biological, nuclear, incendiary, chemical, and explosives incidents. Materials and information relevant to current events on emergency preparedness in terrorist incident management for emergency responders of all disciplines are explored. This course is not open to students who are enrolled in or have received credit for Emergency Medical Services 319. (Pass/No Pass)

**FT 338 Land Navigation****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A study of mapping and GPS skills as applied to fire, Haz-Mat and EMS emergency response. Emphasizes interpreting topographic maps and use of both the compass and GPS device. This course is not open to students who are enrolled in or have received credit for Emergency Medical Services 338 or Environmental Technology 338. (Fall, Spring) (Pass/No Pass)

**FT 341 Fire Hydraulics****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 99.00

Prerequisite: FT 308 - Firefighter I Academy IB ; or State Fire Marshall certified basic fire fighting academy or equivalent as determined by the Director, Fire, Safety, and Emergency Medical Services. NOTE: Approval of equivalent training is not

a guarantee state regulatory or licensing agencies will all grant equivalency

Hydraulic laws and formulas as applied to the fire service, including application of formulas and mental calculations to hydraulic problems, water supply problems, and underwriters' requirements for pumps. Reviews basic mathematics. (A) (Letter Grade or Pass/No Pass)

**FT 343 Pump Theory****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: FT 308 - Firefighter I Academy IB ; or State Fire Marshall certified basic fire fighting academy or equivalent

as determined by the Director, Fire, Safety, and Emergency Medical Services. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

Explores theory and workings of different types of fire pumps. Topics include positive displacement, centrifugal, and varieties of pump impellers. (A) (Pass/No Pass)

**FT 344 Emergency Vehicle Operations****0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Students will learn defensive driving principles and apparatus handling techniques. Driving problems will be presented to the student in both class situations and field examples. The student will gain actual field experience by driving over a prepared course and having to react to different traffic problems. (Fall, Spring) (Letter Grade Only)

**FT 346 Driver Operator 1B****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Valid Class C Firefighter Endorsed driver's license and Fire Apparatus/Operator 1A (2008 or 2015 version)

Prerequisite: FT 308 - Firefighter I Academy IB or ; or State Fire Marshall certified basic fire fighting academy or equivalent as determined by the Director, Fire, Safety, and Emergency Medical Services. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

Provides the student with theory and operation of fire service pumps. Topics include pump maintenance, water supplies, field hydraulics and pump operating techniques. (A) (Pass/No Pass)

**FT 347 Auto Extrication****0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Introduction to the safe and proper techniques for extrication of trapped victims of vehicle accidents. Various tools are used and different extrication methods are presented. (Letter Grade Only)

**FT 348 Pump Operation for Volunteers****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Basic theory, methods, and techniques for operating fire service pumps at an emergency scene. (Letter Grade Only)

**FT 360 Rescue Systems I****1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: FT 308 - Firefighter I Academy IB ; or State Fire Marshall certified basic fire fighting academy or equivalent as determined by the Director, Fire, Safety, and Emergency Medical Services. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalencies for licensure or employment purposes. Presents various rescue systems, ladders systems, lifting and moving heavy objects, emergency building shores, breaching walls and basic rope rescue. (Pass/No Pass)

**FT 361 Confined Space Awareness****units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Introduces fire service personnel to confined space entry/rescue training as required by CAL-OSHA title 8 General Safety Orders. (Letter Grade Only)

**FT 362 Confined Space Rescue Technician****1.0 unit**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Prerequisite: FT 308 - Firefighter I Academy IB ; or State Fire Marshall certified basic fire fighting academy or equivalent as determined by the Director, Fire, Safety, and Emergency Medical Services. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalencies for licensure or employment purposes. Identification of confined spaces and familiarization with CAL-OSHA and federal regulations. Techniques for hazard mitigation will be explored. (Fall, Spring) (Letter Grade or Pass/No Pass)

**FT 363 Low Angle Rescue****1.0 unit**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Provides information on the skills, equipment and techniques that are necessary to successfully accomplish a basic low angle rescue. (Letter Grade Only)

**FT 364 Advanced Cliffside Rescue****0.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Course provides information on the skills necessary to safely effect complex or multiple cliffside rescues. It emphasizes helicopter and night rescues. (Letter Grade Only)

**FT 365 Emergency Trench Rescue Oper****1.0 unit**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Presents the skills necessary to extricate trapped people (or animals) from a collapsed trench. Securing the site and methods for removing victims will be emphasized. (Letter Grade Only)

**FT 370 Introduction to Surf Rescue****0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable

Designed to acquaint rescue personnel with the surf environment, surf rescue equipment, and safe surf rescue practices. (Letter Grade Only)

**FT 399 Special Topics in Fire Technology****0.5 - 3.0 units**

Acceptable for credit:  
 - (Letter Grade or Pass/No Pass)

**FT 410 Volunteer Firefighter****3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Provides the volunteer firefighter with the minimum safety and technical training required for them to function in an effective, competent manner. (Letter Grade Only)

**FT 483 Competency of Ignition Sources****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 Theory and fundamentals of how to conduct fire investigation in structures. Required course in order to maintain certification as a Certified Fire Investigator (CFI). (Fall, Spring) (Pass/No Pass)

**Fire Tech****FTEC 301 Company Officer 2A - Human Resource Management****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 This course provides information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)

**FTEC 302 Company Officer 2B - General Administrative Functions****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 This course provides information on the general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)

**FTEC 303 Company Officer 2C - Fire Inspections and Investigations****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause, and securing the incident scene and preserving evidence. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)



## **FTEC 304 Company Officer 2D - All-Risk Command Operations**

### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multi-unit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and developing and conducting post-incident analysis. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)

## **FTEC 305 Company Officer 2E - Wildland Incident Operations**

### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)

## **FTEC 306 Instructor I - Instructional Methodology**

### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course provides the skills and knowledge needed for the entry level professional instructor to perform his/her duties safely, effectively, and competently. The curriculum is based on the 2012 edition of NFPA 104 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aid and evaluation instruments. The Instructor-I will also be able to adapt a lesson plan and complete the reporting requirements to the local jurisdiction. This is a California State Fire Training professional certification track course for Company Officer. (Fall, Spring) (Letter Grade Only)

## **Global Studies**

### **GBST 101 Introduction to Global Studies**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Introduction to the phenomenon of globalization and a broad range of cultural, economic, political, and social issues confronting the globalized world today. Structured around three thematic categories:(1) culture and society,(2) governance and conflict, and (3) integrated economic systems. Designed to explore multifaceted connections among nation-states; nongovernmental organizations; ethnic, cultural, and religious groups; and populations around the world. (Letter Grade or Pass/No Pass)

### **GBST 141 Global Economics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: Completion of or concurrent enrollment in; ECON 101 - Principles of Macro-Economics ; or ECON 102 - Principles of Micro-Economics ; or ECON 121 - Business Economics ; or BUS 121 - Business Economics

An introduction to international economic issues. Explores why countries trade and addresses the consequences of trade restrictions. Alternative exchange rate systems, factors that cause exchange-rate fluctuations, and the determinants of a country's balance of trade are covered. Other topics include the politics of trade policy, the impact of trade on the job market, the role of international institutions in the global economy, financial crises, global environmental issues, and international debt problems. This course is not open to students who are enrolled in or have received credit for Business 141 or Economics 141. May be taken prior to or concurrently with Econ 101 or Econ 102, or Econ 121 or Bus 121. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## **Geography**

### **GEOG 101 Physical Geography**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

An introduction to the earth's physical geography, addressing the origins, patterns and interconnections of weather/climate, water, landforms, living systems and human culture. (Letter Grade or Pass/No Pass)

### **GEOG 102 Human Geography**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: GEOG 120

Advisories: ENGL 514 - Writing Skills 4

A historical perspective is used to explore our human role in shaping the earth's cultural landscapes. Globalization and cultural diversity are course themes. Topics include population and migration; the geography of language, religion, and social customs; economic forms; settlements; and resource problems. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **GEOG 103 World Regional Geography**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: GEOG 125

Advisories: ENGL 513 - Writing Skills 3

A study of the world's major geographic regions. The course focuses on the increasing globalization of the world and a movement towards greater emphasis on cultural diversity. (Letter Grade or Pass/No Pass)

### **GEOG 105 Geography of California**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: C-ID GEOG 140

Advisories: ENGL 101 - Freshman Composition: Exposition

A survey of the geography of California, including the physical environment, weather and climate, population, industry and



agriculture, and major cultural patterns. (Spring) (Letter Grade or Pass/No Pass)

### **GEOG 110 Introduction To Weather and Climate**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: C-ID GEOG 130

Advisories: GEOG 101 - Physical Geography ; and MATH 311 - Algebra 1

An introduction to the physical processes underlying atmospheric and weather phenomena, including global climate change and the impacts of various weather and climate phenomena on society. Topics include atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclones, dynamics of the atmosphere and ocean, weather forecasting, climate and climate change. (Letter Grade or Pass/No Pass)

### **GEOG 115 Physical Geography Laboratory**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Advisories: MATH 311 - Algebra 1

Prerequisite: GEOG 101 - Physical Geography or concurrent enrollment in GEOG 101.

This course is design to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **GEOG 189 Independent Projects**

#### **0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **Geology**

### **GEOL 100 Physical Geology**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: GEOL 100

An elementary course in the principles of physical geology including identification of rocks and minerals, study and interpretation of topographic and geological maps, and the study of land forms and structures. Includes a local field trip. (Letter Grade or Pass/No Pass)

### **GEOL 114 Oceanography**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition ; and MATH 311 - Algebra 1

An introduction to the physical and biological aspects of the marine environment, including processes of heat transfer, tides, currents, waves, life in the marine ecosystem, geological processes of shorelines, deep sea geology, plate tectonics, and marine economic resources. Includes field trips to local Coastal areas. (Letter Grade or Pass/No Pass)

### **GEOL 131 Geology Of California**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: GEOL 200

Advisories: ENGL 101 - Freshman Composition: Exposition

An overview of the geologic features and history of California emphasizing an understanding of California's past and present plate tectonic setting, unique landscape features, resources and hazards. (Letter Grade or Pass/No Pass)

### **GEOL 141 Environmental Geology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: GEOL 130

Advisories: ENGL 101 - Freshman Composition: Exposition ; and MATH 311 - Algebra 1

A study of humankind's scientific, social, and ethical interactions with earth systems. Topics include earth processes, geologic hazards, the earth's renewable and non-renewable resources, and the earth's ability accept the products of human waste. This course is not open to students who have received credit for Environmental Studies 102. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **GEOL 189 Independent Projects in Geology**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most discipline. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline,

and are based on the following formula: 1 unit- 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **GEOL 199A Topics in Geology: CA Deserts**

### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

A 90 hour field trip which will explore geologic features and geologic history of selected portions of California's deserts. The course is divided into two field trips: first to the Mojave Desert and to Death Valley National Monument (prior to and partly during spring recess), and second to the southern California desert near the Salton Sea and Anza-Borrego State Park (in the latter part of May). (Letter Grade or Pass/No Pass)

## **Graphics**

### **GRPH 108 Design 1 on the Computer**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A basic study of visual design elements and principles, using the computer. This course is not open to students who are enrolled in or have received credit for Art 108. (Letter Grade or Pass/No Pass)

### **GRPH 110 Introduction to Graphic Design**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ART 110 - Design 1 ; or GRPH 108 - Design 1 on the Computer ; or ART 108 - Design 1 on the Computer ; or PHTO 110 - Basic Photography

This course is an introduction to the theories, principles and processes of Graphic Design. Students develop visual communication skills and create digital artwork for printing, publishing and manufacturing industries. Topics include graphic design history; developing strong conceptual and production skills. Students work in a digital studio environment using Apple computers, current Adobe Creative Suite software and digital printing equipment. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **GRPH 111 Digital Imagery Lab**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Prerequisite: Completion of or concurrent enrollment in; GRPH 112 - Digital Imagery

This course teaches students how to construct, edit and process digital images using Adobe Photoshop software and Apple Macintosh computers, color scanners, and digital color printers for a variety of black/white and color projects. Students will explore creative solutions to assignments and utilize current technology to develop and process digital images for various industries including printing, digital publishing, photography, animation and video editing. (Letter Grade or Pass/No Pass)

### **GRPH 112 Digital Imagery**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Corequisite: Completion of or concurrent enrollment in Graphics 111

Introduces students to the use of Apple computers and Adobe Photoshop for developing and editing digital images for use in graphic design, photography, web, video and motion graphics production. Students will learn raster image resolutions, file formats, color systems and professional creative practices for acquisition, creation, editing and processing for various industries including printing, digital publishing, animation, and video editing. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **GRPH 113 Digital Illustration**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 108 - Design 1 on the Computer ; GRPH 110 - Introduction to Graphic Design ; or GRPH 112 - Digital Imagery  
Corequisite: GRPH 114 - Digital Illustration Lab

This course is an introduction to the field of illustration and vector-based drawing using Adobe Illustrator software and Apple computers. Emphasis will be placed on developing skills for producing graphics and illustrations for various commercial art marketplaces. Critical thinking and visual problem solving skills will be integrated with current digital illustration practices, tools and publishing technologies. (Spring) (Letter Grade or Pass/No Pass)

### **GRPH 114 Digital Illustration Lab**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Advisories: CBIS 381 - Introduction to Mac OS

Corequisite: completion of, or concurrent enrollment in GRPH 113

This lab provides opportunities to create and develop digital illustrations and graphic designs utilizing current Adobe Illustrator software and Apple computers in a studio/lab environment. Students will explore the tools, techniques and processes used in developing artwork for graphic design and illustration projects for single and multi-color printing, publishing, and manufacturing processes. (Letter Grade or Pass/No Pass)

### **GRPH 115 Digital Design and Publishing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 110 - Introduction to Graphic Design ; or GRPH 112 - Digital Imagery ; or GRPH 113 - Digital Illustration

This course examines layout and design for printing and digital publishing. Students develop artwork and production skills for printing and publishing projects such as business stationery systems, brochures, booklets, and ebooks. Topics include current production strategies for single and multi-color layouts, variable data and emerging publishing technologies using current version of Adobe InDesign and other Adobe Creative Suite software on Apple Macintosh computers and digital printers. (Spring) (Letter Grade or Pass/No Pass)

### **GRPH 116 Web Portfolio & Social Media**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Introduces fundamental concepts, terminology and techniques to design and manage digital portfolios and develop brand identity for web and social media. Topics include designing for web and social media; presentation techniques for digital portfolios and

using social media applications such as Facebook, Instagram, YouTube, Tumblr, and emerging social media platforms. (Spring) (Letter Grade or Pass/No Pass)

### **GRPH 117 Typography**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 108 - Design 1 on the Computer ; GRPH 110 - Introduction to Graphic Design

This class is an investigation of the expressive potential of typography as a critical element of visual communication and digital media. Students will be introduced to the history of letterforms, elements of basic typography, typographic styles and production techniques. Projects focus on the mechanics of type design, visual appropriateness, and type legibility. Students explore the creative use of typography as a fundamental communication tool using both traditional and digital media. This 3 unit course is a lecture/lab combination and lab work is on Apple computers using current Adobe Creative Suite Software. (Fall) (Letter Grade Only)

### **GRPH 118 User Interface Design**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 112 - Digital Imagery ; or GRPH 113 - Digital Illustration

Introduction to digital interface design with an emphasis on usability and design aesthetics for developing web sites. Graphic design principles and human-centered design concepts are integrated to help develop and build successful interfaces that are meaningful to users and easy to navigate. Topics include designing for interactivity and efficiency; branding; visual content file formats and resolution; visual flow and composition; color, and typography. Software used: current versions of Adobe Creative Suite. Languages taught include HTML and CSS. (Fall) (Letter Grade or Pass/No Pass)

### **GRPH 120 Advanced Design for Publishing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: GRPH 115 - Digital Design and Publishing

This course is designed to advance the skills learned in GRPH 115 to design for print and digital publishing systems. Production, management, and creative skills for printing and publishing processes are further explored using current versions of Adobe InDesign, Adobe Photoshop, Adobe Illustrator and other Adobe Creative Suite software. The lab experience allows for the development of complex projects in a professional publishing environment equipped with Apple Macintosh computers and high quality digital printers. (Spring) (Letter Grade or Pass/No Pass)

### **GRPH 127 History of Graphic Design**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A study of the development of visual communication in art, graphic design, illustration and popular culture. Emphasis is on the role of graphic designers and illustrators, the impact and interpretation of graphic images, symbols, and typography used in informative and persuasive media. The course is designed for graphics majors who

want to transfer and is a Humanities elective for general education requirements. (Fall) (Letter Grade or Pass/No Pass)

### **GRPH 129 Digital Tools for Visual Media**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A hands-on overview of computer operations, industry standard software and equipment common to digital visual communication. Students will apply art and design theory in the exploration of tools used in vector graphics, digital imaging, motion graphics and animation, and digital media interface design. Topics include media development, interactivity, file formats, storage and file management, industry trends and career options. Familiarity with current design software, hardware, input, and output devices will be established. Assignments integrate digital tools, techniques, and creative design using text and image, digital video and audio, and interactivity. The course is not open to students who are enrolled or have completed MMAC 129. (Fall) (Letter Grade or Pass/No Pass)

### **GRPH 130 3D Modeling For Production**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 112 - Digital Imagery ; or GRPH 113 - Digital Illustration

A study of 3D modeling as it applies to industrial design, packaging and animation. Topics include render theory and practices; and surface manipulation of objects. Polygonal and subdivision operations for 3D modeling will be stressed. 3D computer graphics will utilize programs such as Maya and Mudbox. Prior experience will raster and vector elements is desirable. This course is an elective for Applied Design/Media. (Spring) (Letter Grade or Pass/No Pass)

### **GRPH 189 Independent Projects in Graphics**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **GRPH 360 Applied Design Graphics Lab 1**

#### **0.5 - 1.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: Completion of, or concurrent enrollment in; any of the following: ART 107 or ART 108 or GRPH 108 or GRPH 110 or GRPH 112 or GRPH 113 or GRPH 115 or GRPH 116 or GRPH 117 or GRPH 118 or GRPH 120 or GRPH 130

This lab is designed to provide beginning level students the opportunity to refine and expand artistic and technical skills learned in ART 108, ART 107, GRPH 108, 110, 112, 113, 115, 116, 117, 118, 120, and/or 130. Students work on diverse imaging software including Adobe Creative Suite, Maya, and Mudbox on Apple Macintosh computers and have access to digital printers. (Fall, Spring) (Pass/No Pass)

### **GRPH 361 Applied Design Graphics Lab 2**

**0.5 - 1.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: ART 107 or ART 108 or GRPH 110 or GRPH 112 or GRPH 113 or GRPH 115 or GRPH 116 or GRPH 117 or GRPH 118 or GRPH 120 or GRPH 130

Prerequisite: GRPH 360 - Applied Design Graphics Lab 1

This lab is designed to provide intermediate design students opportunities to refine and expand intermediate level artistic and technical skills learned in ART 107, ART 108, GRPH 108, GRPH 110, GRPH 112, GRPH 113, GRPH 115, GRPH 116, GRPH 117, GRPH 118, GRPH 120, and/or GRPH 130. Students work on diverse imaging software including Adobe Creative Suite, Maya, and Mudbox on Apple computers and have access to digital printers. (Pass/No Pass)

### **GRPH 362 Applied Design Graphics Lab 3**

**0.5 - 1.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: Completion of or concurrent enrollment in any one of the following: ART 107 or ART 108 or GRPH 110 or GRPH 112 or GRPH 113 or GRPH 115 or GRPH 116 OR GRPH 117 or GRPH 118 or GRPH 120 or GRPH 130.

Prerequisite: GRPH 361 - Applied Design Graphics Lab 2

This lab is designed to provide advanced design students opportunities to refine and expand advanced level artistic and technical skills learned in ART 107, ART 108, GRPH 108, GRPH 110, GRPH 112, GRPH 113, GRPH 115, GRPH 116, GRPH 117, GRPH 118, GRPH 120, and/or GRPH 130. Students work on diverse imaging software including Adobe Creative Suite, Maya, and Mudbox on Apple computers and have access to digital printers. (Pass/No Pass)

## **Health And Safety (Noncredit)**

### **HEAL 7002A Body Conditioning**

**0.0 hours**

Acceptable for credit: N - Noncredit

Develop a healthier, more balanced body in this fitness conditioning class. Designed for the beginning-to-advanced exerciser, this course focuses on cardiovascular conditioning and resistance exercises to build muscle and tone the body. Injury prevention and proper body mechanics are emphasized.

### **HEAL 7101 Mature Driver Improvement**

**2.0 - 8.0 hours**

Acceptable for credit: N - Noncredit

Successful completion of this eight-hour course that focuses on driving skills may entitle students age 55 and older to a 5 to 10 percent reduction in their auto insurance premiums from many California insurance companies. Class size is limited to 30 students.

### **HEAL 7104 Stress Management**

**2.0 - 8.0 hours**

Acceptable for credit: N - Noncredit

Stress is not bad for you, your reaction to it is! This course teaches you to be less susceptible to the negative physical and emotional reactions to life's stresses. Discover how to use stress to your advantage. Learn effective coping skills, communication skills, and relaxation exercises.

### **HEAL 7106 Living with Food Allergies**

**2.0 - 8.0 hours**

Acceptable for credit: N - Noncredit

This course explores topics about food allergies, such as identifying allergies, differentiating between allergies and food intolerance or sensitivity, reading food labels, causality, treatment, cooking tips, and restaurant guidelines. Students learn the consequences of food allergies, which can result in serious illness or death.

## **Health Education**

### **HED 100 Health and Wellness**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Designed to help students assess their health status and use those assessments to change the behaviors that contribute to an unhealthy lifestyle. Students are provided with a broad foundation of knowledge dealing with mental health, stress management, fitness, diet and weight control, prevention and control of communicable and non-communicable diseases, drugs and alcohol, first aid, cancer prevention and control, and the scope of community health services. (F,S,U) (Letter Grade or Pass/No Pass)

## **History**

### **HIST 101 World Civilizations to 1600**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 150

An interdisciplinary, multi-cultural exploration of the development of the great civilizations: China/Japan, Egypt, Greece/Rome, India, Mesopotamian, and Pre-Columbian. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or have received credit for HUM 101. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HIST 102 World Civilizations Since 1500**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 160

An interdisciplinary examination of the expansion, contraction, and conflicts of the major world civilizations from the 16th century to the present. Focus is on ideas, events, and discoveries that have shaped our world as viewed through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or have received credit for HUM 102. (Letter Grade or Pass/No Pass)

### **HIST 103 East Asian Civilization**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An interdisciplinary, multicultural exploration of the development of the civilizations of East Asia from their origins through the 20th century including China, Japan, and South East Asia. Important ideas, events, and discoveries are explored through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or have received credit for HUM 103. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **HIST 104 Western Civilizations to 1650**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 170

Surveys the origins, development, and characteristics of Western civilization from earliest times through the period of European exploration and colonization, emphasizing main currents in political, economic, social, intellectual, and scientific history. An effort is made to include some study of the "non-West." This course is not open to students who are enrolled in or have received credit for HUM 104. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HIST 105 Western Civilization Since 1650**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 180

Surveys the development and characteristics of Western civilization from 1600 to the present, emphasizing main currents in political, economic, social, intellectual, and scientific history. Some study of the "non-West" is included. This course is not open to students who are enrolled in or have received credit for HUM 105. (Letter Grade or Pass/No Pass)

### **HIST 107 U S History to 1877**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: HIST 130

A survey of United States history (New World exploration to 1877) and its method of research through critical thinking involving the economic, political, international, and ethnic factors fundamental for understanding the nation's origins and early development. (Letter Grade or Pass/No Pass)

### **HIST 108 U S History from 1877 to Present**

#### **3.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: HIST 140

A survey of United States history (1877 to the present) through philosophic systems as related to critical thinking involving the political, ethnic, economic, and international factors fundamental

for understanding the nation's growth since the Civil War. (Letter Grade or Pass/No Pass)

### **HIST 118 United States History**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A brief survey of United States history (New World exploration to the present), and its method of research through critical thinking involving the economic, political, international, and ethnic factors fundamental for understanding the nation's origins and growth. (Letter Grade or Pass/No Pass)

### **HIST 119 History of California**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

The history of California from the earliest explorers to the present, with emphasis on major social and cultural themes. (Letter Grade or Pass/No Pass)

### **HIST 120 History of the Mexican-American**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

A historical survey of the Mexican-American residing in the southwest United States. Reviews the social, economic and political development from the Pre-Columbian period to present, including the interrelationship between histories of the United States and Mexico. (Letter Grade or Pass/No Pass)

### **HIST 138 History of Deaf**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 514 - Writing Skills 4 ; or eligibility for ENGL 101

A culturally diverse exploration of the deaf from Aristotle to the present. Focus is on the ideas, events and laws that have shaped the community as viewed through literature, folklore, art, and philosophy. Interrelationship of societies is emphasized. This course is not open to students who are enrolled in or have received credit for American SGNLNG 138. (Spring) (Pass/No Pass)

### **HIST 189 Independent Projects**

#### **0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary



according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## Home Economics (Noncredit)

### HOEC 7001 Old World Gingerbread

**0.0 hours**

Acceptable for credit: N - Noncredit

Continue the old world holiday tradition of gingerbread baking. Construct a candy-jeweled, classic gingerbread house or birdhouse, candy-crusting fireplace, or a cookie box or serving tray. Learn about various decorative additions to make a truly special gingerbread house. (Letter Grade or Pass/No Pass)

### HOEC 7003 Quick Meals With Whole Foods

**12.0 hours**

Acceptable for credit: N - Noncredit

Explore the use of whole foods to prepare quick, nutritious meals. Learn fast ways to achieve a nutritious diet using the microwave oven, wok, pressure cooker, food processor, bread machine, and other basic, kitchen appliances. (Fall, Spring) (Noncredit)

### HOEC 7004 Meals for Home Entertainment

**8.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

Learn basic food preparation techniques to successfully plan and execute an entertaining home dining event. Discussion topics include meal planning, food purchasing, preparation techniques, garnishes, serving, and food-safety procedures. (Fall, Spring, Summer) (Noncredit)

### HOEC 7005 Healthy Meals in 30 Minutes

**2.0 - 8.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Prepare healthy foods using techniques and strategies that cut preparation time and calories while maintaining flavor and appearance, i.e., microwave, batch cooking, and portion freezing methods.

### HOEC 7007 Cultural Aspects of Food

**8.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Learn to cook culinary specialties of many lands and enjoy new taste experiences while learning about the social, economic, and nutritional significance of food customs. Prepare and sample authentic international dishes. Different cuisines of the world are explored each semester including but not limited to Mediterranean, Mexican, Caribbean, Greek, and Thai. (Noncredit)

### HOEC 7009 Holiday Cookies & Candy

**3.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Share in the holiday festivities by learning dozens of recipes for traditional favorites, new creations, and international cookies and candy. Basic procedures of baking and shaping to produce drop, shaped, spiral, bar, and layered cookies are practiced. Also learn to

use various fillings and icings for more creative baking. This class is open to beginning-through-advanced bakers.

### HOEC 7011 Holiday Foods: The Easy Way

**64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Holiday dishes for seasonal celebrations can be prepared faster, tastier, and more nutritiously with the aid of a microwave oven and other time-saving techniques. Prepare and sample a range of holiday foods such as Fruited Pork Roast, Turkey Breast with Cranberry Glaze, Wild Rice Medley, Pecan Pie, Twice-Baked Sweet Potatoes, Chocolate Bourbon Balls, and Dickens' Plum Pudding. (Letter Grade or Pass/No Pass)

### HOEC 7023 Vegetarian Cooking

**6.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

This course introduces principles of meal planning, preparation techniques, and recipe conversion for vegetarian dishes that emphasize low-fat, low-sugar, and meat replacement. Topics include low-fat cooking; meatless meals for breakfast, lunch, and dinner; meatless meals using legumes, vegetables, and whole grains; and low-sugar cooking. Recipes are prepared and evaluated.

### HOEC 7024 Microwave Cooking

**4.0 - 16.0 hours**

Acceptable for credit: N - Noncredit

Learn to prepare multi-course meals in a microwave oven. This course covers both basic and advanced microwave cooking techniques including appropriate utensils and their use, adapting recipes for the microwave, food preparation techniques, and defrosting and reheating foods.

### HOEC 7030 Chocolate Desserts

**3.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Learn new ways to indulge your loved ones' chocolate desires. Make chocolate lava cake, a chocolate caramel tart, chocolate chip brownies, and chocolate cups. Basic candy-making methods and proper handling of chocolate are covered. Decorative chocolate work, including chocolate leaves, cups, and cutouts are demonstrated.

### HOEC 7035 Light Cooking for 1-2 People

**7.5 - 8.5 hours**

Acceptable for credit: N - Noncredit

Preparing a healthy meal can be easy, economical, and creative. Learn techniques to make it easy to cook smaller portions, prepare a creative and healthful menu, cook and store meals, plan leftovers, and take advantage of value pricing.

### HOEC 7036 Tarts: Sweet and Savory

**3.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Combinations for tart crusts and fillings are countless. Learn to prepare tarts and tartlets, including blind baking, baked fillings, custards, ganache, mousse, pastry cream, frangipane, and fruit fillings.



**HOEC 7100A Beg Clothing Construction****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

This course presents successful sewing techniques using current methods and technology in custom and speed-clothing construction. Students also learn about pattern and fabric selection, fitting garments, proper use of tools and equipment, and construction techniques appropriate to various fabrics and garments.

**HOEC 7101A Clothing Construction 2****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Building on the basics, a wider variety of techniques are demonstrated for greater creativity and problem solving while working with a broader range of styles and fabrics. With the goal of gaining confidence and skill, students practice with special sewing machine feet, the overlock/serger, creative stitches, and special tools. (Letter Grade or Pass/No Pass)

**HOEC 7102A Sewing Projects-Open Lab****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Sewing projects are selected by the student and developed under the guidance of an instructor. The lab provides students with individualized practical application of garment construction and fitting. Emphasis will be placed on comparative methods and techniques.

**HOEC 7103A Clothing Alterations****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Students develop practical skills in fitting, altering, and restyling ready-to-wear clothing for women, men and children. Students learn the basics of altering clothing for clients, with an emphasis on building speed and increasing fit expertise. Client relations, pricing of services and further education needed to own an alterations business are discussed.

**HOEC 7105A Sewing With Special Fabrics****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Students explore the history and characteristics of a wide range of fabrics including silk, faux fur, leather, lace, and many more, to understand how to use these special fabrics effectively in clothing design and construction. Students learn how to select styles, choose tools, and apply specialized sewing methods for each fabric.

**HOEC 7108A Sewing with Sergers****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Students of all sewing levels learn how to use a home serger/overlock and coverstitch machine to achieve professional looking seams, hems, and garment details while significantly saving time and effort. Students start with the basics of threading and adjusting tension and advance to creative techniques of embellishing with decorative threads.

**HOEC 7110A Embroidery Machine Basics****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Course introduces the basics of using a computerized, home embroidery machine to produce professional results that rival those seen in stores. Using stabilizers, selecting threads, combining designs and making templates are demonstrated. Methods of using the machine to create appliques, lace, and fine cutwork are practiced.

**HOEC 7111A Creative Sewing****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Students develop general sewing techniques and skills necessary for well-fitting garments and desirable gifts. Students increase confidence as they develop talent in combining fabric and sewing skills with art for creative expression. Students may select projects of their choice or those provided by the instructor.

**HOEC 7112A Advanced Clothing Construction****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Students learn how to plan, fit, and sew challenging projects that may include tailored garments, formalwear, or students' own designs. Building support and shape into garments, customizing patterns and applying couture and designer techniques are practiced. Surface embellishment and structural design features are shown to inspire student creativity.

**HOEC 7115A Fitting & Pattern Alterations****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Students learn to recognize perfect fit and apply a logical system of measuring, altering patterns and fitting garments for any body type. Students create a master bodice and skirt or pants pattern that to use as a reference point for quickly altering any other pattern, or as a master pattern for custom designs.

**HOEC 7151A Quilting****48.0 - 45.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Learn the art of quilting! Explore traditional methods, new techniques, appliqué, speed-piecing, and a variety of finishing techniques. Create pillows, wall hangings, samplers, bed quilts, or work on an individual project. Beginning-to-advanced students are welcome. (Noncredit )

**HOEC 7162A Creative Oriental Bunka Art****48.0 - 45.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

This course provides an overview of Bunka embroidery, a 2,000-year-old needle arts technique. Students learn the art of painting with thread, gain practical experience, and develop creative expression. Beginners use kits and then progress to original work. (Letter Grade or Pass/No Pass)

**HOEC 7164A Crochet and Knitting****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Learn basic through advanced knitting and crochet stitches and their combinations, how to read patterns, how to make garments, plus other needle arts as requested. Materials and project ideas are discussed at the first class. All experience levels welcome.

**HOEC 7201A Home Construction and Decor****32.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

This course is designed to introduce students to the various environmentally-friendly materials and green options available today in modern home construction. Whether building or remodeling, this course helps students make informed decisions about home materials including aesthetic characteristics of paint, flooring, textiles, window treatments, and cabinets. (Noncredit )

**HOEC 7202A Decorative Painting: Interiors****45.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

This course introduces various decorative painting techniques that can be achieved with water-based paints. Students discuss and practice the following techniques: surface textures, antiquing, crackling, distressing, stenciling, wood graining, marbleizing, and simulated granite applications. Design elements and various media and surfaces are presented to enable students to develop skills for personal use or practice the profession at a beginning level. (Noncredit )

**HOEC 7301 Dealing With Anger****0.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Whether in the workplace or at home, students learn to deal with various aspects of anger. Topics include anger management, types of anger, reasons for anger, anger and stress, appropriate anger, risks of anger, and dealing with angry people. This course emphasizes personal development and reduction of domestic and workplace violence. (Noncredit )

**HOEC 7303 Heart Disease Prevention****0.0 hours**

Acceptable for credit: N - Noncredit

Current cardiovascular research is reviewed and healthy lifestyle choices are introduced to improve heart health. Discussion topics include identifying and understanding reliable sources, dietary changes, stress management, and exercise. (Letter Grade or Pass/No Pass)

**HOEC 7304 Balancing Work and Life****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Students learn to create a healthy lifestyle that supports positive and loving relationships; a creative work environment that ensures wealth and security; and a sense of confidence and well-being that warrants respect and dignity. Students evaluate goals and

lifestyle and align daily activities for success, prosperity, wellness, and happiness.

**HOEC 7400 Estate Planning****3.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

It is never too soon to have your estate in order. Learn more about advanced health care directives, durable powers of attorney, wills, trusts, and probate. Understand why these items are necessary and how to make informed decisions about health and financial issues.

**HOEC 7401 Planning for Retirement****3.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

Get the most out of your retirement saving plans! This class is designed for working people and their partners who are saving for retirement. Learn how 401(k)s, 403(b)s, SEP-IRAs, and other retirement plans work. Learn how to maximize your retirement benefits.

**HOEC 7402 Overcome Fear in the Market****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Many times the natural reaction to a market downturn can be counterproductive. Become a better informed, more sophisticated investor. Learn how to avoid common mistakes made by many investors when they follow their natural reactions during challenging markets. Learn how to become less focused on short-term movements of the market and more consistent in your investment strategy.

**HOEC 7403 Investment/Stock Market Basics****3.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

Regardless of your financial situation or goals, you need to know about the power of investing. Learn how to increase investment income while reducing taxes on those investments. Learn about stock market basics, and how to focus on financial goals, whether saving for children's education or planning for retirement.

**HOEC 7404 A Woman's Guide to Finances****3.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

Women have many of the same financial goals as men, but often face a different set of challenges when working toward those goals. Students learn how these challenges can affect women's financial futures and how to overcome them. Basics of money management, investing, estate planning, and tools to increase financial wealth are covered.

**HOEC 7405 Choosing Stocks****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

With hundreds of companies listed on Wall Street, choosing the right stocks for your portfolio may seem like a daunting task. Learn

how to build a balanced portfolio, evaluate companies, follow time-tested strategies, and reduce the risks of investing in stock.

## Humanities

### **HUM 101 World Civilizations to 1600**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An interdisciplinary, multicultural exploration of the development of the great civilizations: China/Japan, Egypt, Greece/Rome, India, Mesopotamian, and Pre-Columbian. Important ideas, events and discoveries are explored through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or have received credit for History 101. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUM 102 World Civilizations Since 1500**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 160

An interdisciplinary examination of the expansion, contraction, and conflicts of the major world civilizations from the 16th century to the present. Focus is on ideas, events, and discoveries that have shaped our world as viewed through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or who have received credit for HIST 102. (Letter Grade or Pass/No Pass)

### **HUM 103 East Asian Civilization**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An interdisciplinary, multicultural exploration of the development of the civilizations of East Asia from their origins through the 20th century: China, Japan, and South East Asia. Important ideas, events, and discoveries are explored through literature, folklore, art history, philosophy, and science. This course is not open to students who are enrolled in or have received credit for History 103. (Fall, Spring, Summer) (Pass/No Pass)

### **HUM 104 Western Civilizations to 1650**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: HIST 170

Surveys the origins, development, and characteristics of Western civilization from earliest times through the period of European exploration and colonization, emphasizing main currents in political, economic, social, intellectual, and scientific history. An effort is made to include some study of the "non-West." This course is not open to students who are enrolled in or have received credit for HIST 104. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUM 105 Western Civilization Since 1650**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Surveys the development and characteristics of Western civilization from 1600 to the present, emphasizing main currents in political, economic, social, intellectual, and scientific history. Some study of the "non-West" is included. This course is not open to

students who are enrolled in or have received credit for HIST 105. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## Human Services

### **HUSV 101 Becoming a Helping Professional**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to a variety of aspects relating to human service helping professionals, including required education/training, certification/licensure, ethical/legal issues, motives, values, cultural sensitivity/competency, special populations, life transitions, transference/countertransference, boundary issues, stress, burnout, and self-care. (Letter Grade or Pass/No Pass)

### **HUSV 102 Case Management of Diverse Clients**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to basic concepts and skills of case management with diverse populations including cultural competence, ethics, intakes, assessment, case planning, referrals, implementation and documentation. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 103 Basic Counseling Skills**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Introduction to counseling skills for the human services paraprofessional with applications to different work settings and diverse populations. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 104 Group Dynamics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Explores the process and content of counseling groups and families. Topics include developmental stages of groups, group formation, constructive and ineffective processes, behavioral ground rules, interventions, entry into and exit from groups, ethics, cultural and ethnic diversity, documentation of client behavior, and self-awareness in group situations. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 106 Family Systems, Addiction & Trauma**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Examines family systems dynamics and intergenerational transmission of addiction, and the interacting effects of these phenomena with abuse and psychological trauma. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 107 Serving Culturally Diverse Clients**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Survey of culturally competent strategies and approaches for working in human service settings with clients who are culturally, ethnically, and physically diverse. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 108 Crisis Intervention Skills**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Training in basic crisis intervention skills and application of these skills to a wide range of issues, situations, and settings including domestic abuse, suicide, sexual assault, addiction, post-traumatic stress, and losses including deaths. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 110 Alcohol, Other Drugs, and Addiction**

**3.0 units**

Acceptable for credit: Transfer CSU

An overview of the role of alcohol and other drugs in society with emphasis on such topics as patterns of use, major categories of drugs, use/misuse/addiction, and approaches to prevention, intervention, and treatment. This course is not open to students who are enrolled in or have received credit for SOC 106 or PSY 106. (Fall, Spring) (Letter Grade Only)

### **HUSV 111 Addiction Treatment and Recovery**

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: HUSV 102 - Case Management of Diverse Clients ; HUSV 103 - Basic Counseling Skills ; HUSV 110 - Alcohol, Other Drugs, and Addiction ; or PSY 106 - Alcohol, Other Drugs, and Addiction ; or SOC 106 - Alcohol, Other Drugs, and Addiction Survey of the theory, practice, and process of addiction treatment including such topics as ethics; assessment and diagnosis; planning; case management; cultural diversity; counseling strategies; aftercare; motivational interviewing; harm reduction; and relapse prevention. (Fall) (Letter Grade Only)

### **HUSV 112 Motivational Interviewing and Nonconfrontational Approaches**

**3.0 units**

Acceptable for credit: Transfer CSU

This course presents a non-confrontational communication approach, Motivational Interviewing, designed to facilitate change in people who suffer from substance use, mental health, medical health, and lifestyle problems. The course presents theory and provides opportunities to practice evidence-based communication skills. (Letter Grade or Pass/No Pass)

### **HUSV 113 Women and Addiction**

**3.0 units**

Acceptable for credit: Transfer CSU

An overview of major issues related to women who have substance use problems and disorders. Topics include effects on pregnancy, drug-exposed children, family relationships, feminist issues, women's reactions to substances, and women's specific addiction treatment needs. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 120 Human Services (General) Practicum**

**2.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience in HUSV 120: (1) students must be volunteering or working in the social services or interpersonal helping field or related field, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a

job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Students enrolled in HUSV 120 may earn 2 units of credit by completing 120 hours of work experience if unpaid or 150 hours if paid. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Taken together with HUSV 121, HUSV 120 is the capstone course of the Human Services (General) Certificate or degree. Provides students with supervised work experience in a social service or interpersonal helping agency or facility (2 units 120-150 hours) required. Permission of instructor is required if the student has not satisfactorily completed all other requirements in the degree or certificate prior to enrolling. (Fall, Spring) (Letter Grade Only)

### **HUSV 121 Human Services (General) Practicum Seminar**

**2.0 units**

Acceptable for credit: Transfer CSU

Provides students with a seminar format in which to discuss, analyze, and critically evaluate their fieldwork experience in local human services agencies as it relates to Human Services. Designed for the student who is enrolled in HUSV 120. (F, S) (Fall, Spring) (Letter Grade Only)

### **HUSV 122 States Of Consciousness**

**3.0 units**

Acceptable for credit: Transfer CSU

An exploration of different states of consciousness, the means of attaining those states, their uses, misuses, and consequences. Topics include theories of consciousness, neural correlates of conscious experience, substance use disorders, sleep, dreams, hypnosis, dissociation and dissociative disorders, out-of-body states, near-death experiences, paranormal phenomena, meditation, non-Western methods of altering consciousness, and peak experiences. This course is not open to students who are enrolled in or who have received credit for PSY 122 or ANTH 122. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 126 Meditation, Mindfulness, and Stress Reduction**

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the practices of meditation, mindfulness, and stress reduction including their origins in both Western and non-Western cultures, and their physiological and psychological benefits. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 127 Emotional Intelligence**

**3.0 units**

Acceptable for credit: Transfer CSU

An introduction to Emotional Intelligence - a set of abilities and skills concerned with perceiving and managing emotional states in

oneself and others. The neurobiology of emotions, how emotional states "hijack" people's behavior, and the application of emotional intelligence in a variety of personal and interpersonal situations are emphasized. This course is not open to students who are enrolled in or who have received credit for PSY 127. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 128 Positive Psychology**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the psychological study of the positive, adaptive, creative, and emotionally fulfilling elements of human behavior and the factors that contribute to people being happy, productive, and well adjusted. This course is not open to students who are enrolled in or who have received credit for PSY 128. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **HUSV 130 Addiction Studies Practicum**

#### **4.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: <p>Permission of instructor required if student has not satisfactorily completed all other requirements in the degree or certificate prior to enrolling. To participate in Cooperative Work Experience in HUSV 130: (1) Students must volunteer or work in the addiction treatment field, (2) Students must be able to become involved in a new or expanded responsibilities on the job if they are using a job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities.</p> <p>Students enrolled in HUSV 130 may earn 4 units of credit by completing 240 hours of work experience if unpaid or 300 hours if paid.</p> <p>CWE Units Unpaid Placement:</p> <p><span dir="ltr">1 unit 60 hours<br /> 2 units 120 hours<br /> 3 units 180 hours<br /> 4 units 240 hours<br /> 5 units 300 hours<br /> 6 units 360 hours<br /> 7 units 420 hours<br /> 8 units 480 hours</span></p> <p>&nbsp;<span></span>CWE Units Paid Placement:</p> <p><span></span>1 unit 75&nbsp;<span></span>hours<br /> 2 units 150 hours<br /> 3 units 225 hours<br /> 4 units 300 hours<br /> 5 units 375 hours<br /> 6 units 450 hours<br /> 7 units 525 hours<br /> 8 units 600 hours</p> </div>

Taken together with HUSV 131, HUSV 130 is the capstone course of the Addiction Studies certificate or degree. Provides students with practicum/supervised work experience in an addiction treatment program or facility (4 units/240-300 hours required). Permission of instructor is required if the student has not satisfactorily completed all other requirements in the degree or certificate prior to enrolling. (Fall, Spring) (Letter Grade Only)

### **HUSV 131 Addiction Studies Practicum Seminar**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Provides students with a seminar format in which to discuss, analyze, and critically evaluate their fieldwork experience in local human services agencies as it relates to Addiction Studies. Designed for the student who is concurrently enrolled in HUSV 130. (F,S) (Fall, Spring) (Letter Grade Only)

### **HUSV 132 Drugs, the Brain and the Body**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: HUSV 110 - Alcohol, Other Drugs, and Addiction ; or SOC 106 - Alcohol, Other Drugs, and Addiction ; or PSY 106 - Alcohol, Other Drugs, and Addiction

Provides an overview of the pharmacology of drugs in substance use disorders with emphasis on drug effects, how drug effects occur, how the body processes drugs, and health consequences of drug use and addiction. Physiologic aspects of addiction and tolerance are explored. Pharmacologic interventions are integrated with other substance use disorder treatment modalities. This course is not open to students who are enrolled in or have received credit for PSY 132. (Fall) (Letter Grade Only)

### **HUSV 135 Ethics for Human Services Professionals**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An in-depth exploration of professional ethical standards for human services professionals, emphasizing confidentiality, privileged communication, dual/multiple relationships, professional boundaries, issues of abuse and neglect, the responsibilities and duties of professionals in helping relationships, and the differences between personal and professional relationships. (Letter Grade or Pass/No Pass)

### **HUSV 140 Co-occurring Disorders Practicum**

#### **2.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Permission of instructor required if student has not satisfactorily completed all other requirements in the certificate prior to enrolling. To participate in Cooperative Work Experience in HUSV 140: (1) students must be volunteering or working in the social services or interpersonal helping or related field focusing on the needs of persons with co-occurring substance use and mental disorders, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities.; Students enrolled in HUSV 140 may earn 2 units of credit by completing 120 hours of work experience if unpaid or 150 hours if paid. 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Provides students with a combination of practicum/supervised work experience in a helping agency or facility that serves clients with co-occurring substance use and mental disorders (2 units/120-150 hours required). Permission of instructor is required if the student has not satisfactorily completed all other requirements in the certificate prior to enrolling. (Fall, Spring) (Letter Grade Only)

## **HUSV 141 Co Occurring Disorders Practicum Seminar**

### **2.0 units**

Acceptable for credit: Transfer CSU

Provides students with a seminar format in which to discuss, analyze, and critically evaluate their fieldwork experience in local human services agencies as it relates to Co-occurring Disorders. Designed for the student who is concurrently enrolled in HUSV 140. (Fall, Spring) (Letter Grade Only)

## **HUSV 142 Co-occurring Disorders: Engagement**

### **3.0 units**

Acceptable for credit: Transfer CSU

Concepts, definitions, and features of co-occurring mental health and substance use disorders emphasizing attainment of empathic engagement with persons who have these disorders. This course is not open to students who are enrolled in or who have received credit for PSY 142. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **HUSV 143 Co-occurring Disorders: Integrated Interventions**

### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: HUSV 142 - Co-occurring Disorders: Engagement ; or PSY 142 - Co occurring Disorders Engagement

A study of the intervention to benefit persons who have both psychiatric problems and alcohol or other drug use problems. This course is not open to students who are enrolled in or who have received credit for PSY 143. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **HUSV 145 Effective Writing for Human Services**

### **3.0 units**

Acceptable for credit: Transfer CSU

A course designed to enable helping professionals and human service workers to prepare written documentation accurately, correctly, and in a professional manner. (Letter Grade or Pass/No Pass)

## **HUSV 150 Family Studies Practicum**

### **2.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Permission of instructor is required if student has not satisfactorily completed all other requirements in the certificate prior to enrolling. To participate in Cooperative Work Experience in HUSV 150: (1) students must be volunteering or working at a job in the social services or interpersonal helping field focusing on the needs of families and children, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Students enrolled in HUSV 150 may earn 2 units of credit by completing 120 hours of work experience if unpaid or 150 hours if paid.

Taken together with HUSV 151, HUSV 150 is the capstone course of the Family Studies Certificate. Provides students with practicum/

supervised work experience in a social service or interpersonal helping agency or facility focusing on the needs of families and children (2 units/120-150 hours required). Permission of instructor is required if the student has not satisfactorily completed all other requirements for the certificate prior to enrolling. (Fall, Spring) (Letter Grade Only)

## **HUSV 151 Family Studies Practicum Seminar**

### **2.0 units**

Acceptable for credit: Transfer CSU

Provides students with a seminar format in which to discuss, analyze, and critically evaluate their fieldwork experience in local human services agencies as it relates to Family Studies. Designed for the student who is enrolled in HUSV 150. (Fall, Spring) (Letter Grade Only)

## **HUSV 160 Family Service Worker 2 Practicum**

### **2.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience in HUSV 160:(1) students must volunteer or work in the social services or interpersonal helping field focusing on the needs of families and children, (2) students must be able to become involved in new or expanded responsibilities on the job if they are using a job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Students enrolled in HUSV 160 may earn 2 units of credit by completing 120 hours of work experience if unpaid or 150 hours if paid. Taken together with HUSV 161, HUSV 160 is the capstone course of the Family Service Worker 2 Certificate. Provides students with practicum/supervised work experience in a social service or interpersonal helping agency or facility focusing on the needs of family and children (2 units/120-150 hours required). Permission of instructor is required if the student has not satisfactorily completed all other requirements in the certificate prior to enrolling. (Fall, Spring) (Letter Grade Only)

## **HUSV 161 Family Service Worker 2 Practicum Seminar**

### **2.0 units**

Acceptable for credit: Transfer CSU

Provides students with a seminar format in which to discuss, analyze, and critically evaluate their fieldwork experience in local human services agencies as it relates to the Family Services Worker 2 certificate. Designed for the student who is enrolled in HUSV 161. (Fall, Spring) (Letter Grade Only)

## **HUSV 170 Concurrent Human Services Practicum**

### **2.0 - 4.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Permission of instructor required. For students undertaking a second or second and third practicum concurrently with an internship (HUSV 120,130,140,150,or 160). To participate in Cooperative Work Experience in HUSV 170: (1) students must volunteer or work in a social service or helping field, (2) students must be able to become involved in new or



expanded responsibilities on the job at which they are already employed for this course, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student, and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. Students enrolled in HUSV 170 may earn 2-4 units of credit by completing 120-240 hours of work experience if unpaid or 150-300 hours if paid. Completion of HUSV 170 concurrently with HUSV 120, 130, 140, 150, or 160 will meet the internship requirement for the Human Services (General) degree or certificate or the Co-occurring Disorders or Family Studies or Family Service Worker 2 certificates, depending on the completion of remaining degree or certificate requirements.

Allows students to expedite degree or certificate completion by undertaking an additional practicum concurrently with one of the Human Services program internships (HUSV 120, 130, 140, 150, or 160). Provides students with a combination of practicum/supervised work experience in a social services or helping setting (2-4 units/120-300 hours required). The internship course in which the student is concurrently enrolled provides a seminar format in which to discuss, analyze, and critically evaluate their experience in this practicum. Permission of instructor is required. This course may not be used to meet the internship requirement for the Addiction Studies degree/certificate. (Letter Grade Only)

### **HUSV 189 Independent Projects in Human Services**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate Academic Dean, or an instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and approved by the appropriate dean before the last day of enrollment. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **Library Skills**

#### **LBRY 170 Research Methods**

##### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Presents effective methods for research to locate, critically evaluate, and ethically use information from a variety of print, non-print and online resources. Students will learn research skills and strategies for college term papers and life-long learning while exploring the changing world of information. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **Leadership**

#### **LDER 111 Principles and Practices of Student Government**

##### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to leadership and skills associated with effective leadership. Topics include parliamentary procedure, group dynamics, planning and conducting activities. Self awareness, cultural differences, ethics, communications skills, motivation, delegation and time management as related to organizational structure are emphasized. (Letter Grade or Pass/No Pass)

#### **LDER 112 Practices and Application of Leadership Principles**

##### **3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: LDER 111 - Principles and Practices of Student Government

Provides an opportunity for students to enhance and apply leadership skills and practice peer mentoring. Communication, team building, and activity/event planning are emphasized. Participation in ASBG meetings and activities is required. (Letter Grade or Pass/No Pass)

### **Law Enforcement**

#### **LE 310 Introduction to Law Enforcement Academy (Pre-Academy)**

##### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Admission by application.

An orientation course designed to prepare students for the Law Enforcement Academy. A series of self-assessment activities and exercises will help students understand the Academy challenges and requirements. This course is presented in a rigorous and disciplined training environment. Students will participate in activities designed to simulate the Allan Hancock College Law Enforcement Academy to assess individual emotional, mental and physical readiness for the Academy. Students with pre-existing injuries or disabilities or who have physical, emotional or mental limitations should contact the course coordinator or college student services office for advisement. (Fall, Spring) (Letter Grade Only)

#### **LE 318 Traffic Collision Investigation**

##### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must possess a valid driver's license.

Prerequisite: POST certified basic law enforcement academy or equivalent training as determined by the Director, Law Enforcement training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This P.O.S.T. certified course provides field officers with advanced knowledge and skills for investigating traffic collisions. Emphasis will be upon documenting information and evidence at the collision scene. Participants will learn and demonstrate in practical

simulations effective procedures for conducting preliminary traffic collision investigations. The course satisfies the mandates of California Vehicle Code 40600(a). (Fall, Spring) (Pass/No Pass)

### **LE 320 Basic Law Enforcement Academy**

#### **22.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 306 - Writing Lab ; PE 141 - Physical Fitness Laboratory

Limitations on Enrollment: Students who are not sponsored by a law enforcement agency must complete the 18 hours Pre Academy evaluation and preparation course, LE 310, to ensure that they are physically capable of safely meeting the rigorous State of California physical fitness requirements. Prior to enrollment, students must also complete an academy application packet and submit Livescan fingerprints to the California Department of Justice to verify that they can legally be issued and possess a firearm. Students must score 42 or higher on the POST PELLETB Test. Students must submit a completed California POST approved Medical History/Clearance form signed by their physician after medical examination. Additionally, students must be approved by the Law Enforcement Training Division of the Public Safety Department prior to enrolling.

This course is designed to satisfy the State of California Commission on Peace Officers Standards and Training (POST) requirements for basic law enforcement recruit training. It is presented in an environment of serious study, rigorous physical training, and strict law enforcement disciplinary procedures. The course is open to newly hired peace officers and other qualified students interested in employment as a law enforcement officer. Students who successfully complete the academy are awarded a certificate that qualifies them to be employed as law enforcement trainee by any California POST certified law enforcement agency. (F,S) (Fall, Spring) (Letter Grade Only)

### **LE 321 Basic Law Enforcement Academy 1A**

#### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
C-ID Course Number: LE322

Advisories: ENGL 101 - Freshman Composition: Exposition

Limitations on Enrollment: Admission by application

Prerequisite: LE 310 - Introduction to Law Enforcement Academy (Pre-Academy)

The first in a two-course sequence designed to satisfy all State of California requirements for basic law enforcement officer training. The Basic Law Enforcement Academy consists of LE 321 and LE 322. Both courses must be completed within the same semester. The package is designed to satisfy the training requirements for the Basic Law Enforcement Training as established by the California Commission on Peace Officer Standards and Training (POST). Academic, manipulative, and technical training are presented in an environment of serious study, rigorous physical training, and standard law enforcement disciplinary procedures. (Fall, Spring, Summer) (Letter Grade Only)

### **LE 322 Basic Law Enforcement Academy 1B**

#### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

C-ID Course Number: LE321

Prerequisite: LE 321 - Basic Law Enforcement Academy 1A

The second in a two-course sequence designed to satisfy all State of California requirements for basic law enforcement officer training. The Basic Law Enforcement Academy consists of LE321 and LE322. Both must be completed within the same semester. The package is designed to satisfy the training requirements for the Basic Law Enforcement Training as established by the California Commission on Peace Officer Standards and Training. Academic, manipulative, and technical training are presented in an environment of serious study, rigorous physical training, and standard law enforcement disciplinary procedures. (Fall, Spring, Summer) (Letter Grade Only)

### **LE 329 State Hospital Peace Officer**

#### **17.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Students must possess a valid driver's license; meet the state required minimum qualifications for State Hospital Peace Officer, and have a Department of Justice clearance letter to possess a firearm.

Prerequisite: LE 424 - PC 832 Arrest ; or Completion of a 40 hour arrest and control course completed at another institution, or equivalent training as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This course delivered over fifteen weeks, provides the student with the basic knowledge and skills for entry into the on-the job training program for peace officers at state hospitals such as Atascadero State Hospital. To enroll, students need to meet the State-required minimum qualifications for employment as a State Hospital Peace Officer, completion of a 40 hour Arrest and Control Course (LE424, or equivalent at another institution), and have a Department of Justice clearance letter to possess a firearm. The course is presented in an atmosphere of serious study and standard law enforcement discipline. (Fall, Spring) (Pass/No Pass)

### **LE 330 Core Custody Academy**

#### **11.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 1.00

Advisories: PE 141 - Physical Fitness Laboratory ; and ENGL 306 - Writing Lab

Limitations on Enrollment: Placement into ENGL 513 or higher on the START placement exam; Students must 1) Be free of felony convictions; 2) possess a valid California Driver's License; 3) undergo a fingerprint and criminal history check; 4) be a minimum of 18 years of age; 5) be a high school graduate, pass the GED, the California High School Proficiency Examination, or have attained a two-year or four-year degree from an accredited college or university; 6) complete a medical suitability examination; and 7) complete a Personal History Statement and interview prior to start of class.

The Core Custody Academy is designed to satisfy State of California Standards and Training for Corrections (STC) requirements for students wanting to be hired as a custody officer by a law enforcement agency or currently employed as such. The

acronym "core" refers to the description of the job as it relates to the overall mission of the adult corrections officer job and its place in the criminal justice system and from the statewide job analysis research conducted periodically by the STC program of the California Board of State and Community Corrections. The CORE Academy is an intensive college course with para-military discipline. Students attending the academy will be academically and physically challenged, faced with solving complex problems in a stressful, disciplined and structured environment. Recruits receive basic training in many phases of custody of prisoners. (Spring) (Letter Grade Only)

### **LE 341 Emergency Vehicle Operations/Non-Law Enforcement**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 99.00

Corequisite: Enrollment in a public safety academy, or equivalent training, as determined by the Director Law Enforcement training.

NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

Limitations on Enrollment: Must possess and show proof of a valid driver's license.

An emergency vehicle operators course for those working in non-law enforcement public safety disciplines. The student will learn defensive driving and handling techniques in the classroom setting and through field examples. (Fall) (Pass/No Pass)

### **LE 351 Field Training Officer**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: Satisfactory completion of a P.O.S.T. (State of California Commission on Peace Officers Standards and Training) certified basic law enforcement academy, or certified Standards and Training for Corrections (STC) academy or equivalent training as determined by the Director, Law Enforcement training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This P.O.S.T. certification 40-hour course provides students with the P.O.S.T. Field Training Officer requirements, training techniques, and methodologies for officers assigned to train and supervise new field trainees. (Fall, Spring, Summer) (Pass/No Pass)

### **LE 352 Field Training Officer Update**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 99.00

Prerequisite: POST certified basic law enforcement academy or equivalent training as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This P.O.S.T. certified 24-hour course meets the tri-annual update requirements for Field Training Officers assigned in P.O.S.T.

certified Field Training Programs. F.T.O.s will receive updated information and methods regarding teaching and training skills, leadership, ethics, legal requirements, standardized evaluation guidelines, and current curriculum and methods used in Law Enforcement Academy. (Fall, Spring) (Pass/No Pass)

### **LE 353 Field Training Administrator**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 99.00

Prerequisite: P.O.S.T certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. This P.O.S.T. certified 24-hour course meets the requirements for law enforcement agency personnel assigned as Supervisors, Administrators, or Coordinators (S.A.C.s) of P.O.S.T. approved Field Training Programs. Course curriculum includes P.O.S.T. requirements, roles and responsibilities, contemporary adult learning, legal and liability issues, evaluations and documentation, and program management methods and strategies. (Fall, Spring) (Pass/No Pass)

### **LE 354 Training Management Update**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: POST certified basic law enforcement academy or equivalent training as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This POST certified 24-hour course is designed to update the law enforcement agency training manager or coordinator with changes in regulations and case law, challenges, opportunities, and trends in the training environment. (Letter Grade Only)

### **LE 355 Leadership Development**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: P.O.S.T. certified basic law enforcement academy or Standards and Training for Corrections (STC) certified training academy, or equivalent training as determined by the Director Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This P.O.S.T. and STC certified 40-hour course is designed to prepare students for a leadership position within a law enforcement agency. It is offered in two formats: one day per month for five months, or five consecutive days. Course curriculum includes leadership concepts and roles, organizational change, liability issues, performance evaluations, disciplinary processes, group dynamics, ethical decision making, community policing, and oral board preparation and exercise. (Fall, Spring) (Pass/No Pass)

### **LE 356 Crime Scene Investigation**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: POST certified basic law enforcement academy or equivalent training as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes.

This POST certified course provides advanced instruction and "hands-on" application in photographing, protecting, processing, and documenting crime scenes as well as the proper methods of the handling of associated physical evidence. This course satisfies the requirement for the universal elective for ICI certification pursuant to California Penal Code 13519.9. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **LE 357 Instructor Development**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. This P.O.S.T. certified 40-hour course provides the essential instructional and facilitation skills and strategies for those interested in being an instructor in a law enforcement or public safety related training program. The P.O.S.T. Academy Instructor Certification Course (A.I.C.C.) meets the initial training requirement for instructors in the Regular Basic Course (Law Enforcement Academy) as well as the tri-annual recertification training requirement. (Fall, Spring) (Pass/No Pass)

### **LE 360 Arrest & Control/Emergency Vehicle Operations Course**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Must possess a valid driver's license. Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training courses focusing on specialized law enforcement instruction in arrest and control and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. On the track driving is used. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 361 Force Options Simulator Emergency Vehicle Operations Course (EVOC)**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Limitation on enrollment: must possess a valid driver's license. Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is

not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training course focusing on specialized law enforcement instruction in force options simulator and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 362 Law Enforcement Driving Simulator/Emergency Vehicle Operations**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Repeatable: 99.00  
Limitations on Enrollment: Must possess a valid driver's license. Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training courses focusing on specialized law enforcement technology in law enforcement driving simulators and emergency vehicle operations. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. On the track driving and driving simulators are used. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 363 Force Options Simulator/Arrest and Control**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Repeatable: 99.00  
Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training courses focusing on specialized law enforcement instruction in force options simulator and arrest and control techniques. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 364 Law Enforcement Driving Simulator/Arrest and Control**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training courses focusing on specialized law enforcement instructions in law enforcement driving simulator and arrest and control techniques. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. Driving simulators will

be used. May be repeated as often as necessary for purposes of recertification. Arrest and control consists of a comprehensive update and review of arrest and control skills and methods. (Pass/No Pass)

### **LE 365 Law Enforcement Driving Simulator/Force Options Simulator**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Must possess a valid driver's license.  
 Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Short-term training courses focusing on specialized law enforcement technology in law enforcement driving simulators and force operations simulators. The training will be divided into four-hour modules. Topics will be identified on an annual basis in conjunction with law enforcement agencies. Driving and force option simulators will be used. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 366 Emergency Vehicle Operations Course**

#### **0.5 - 1.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: POST certified basic law enforcement academy or equivalent training as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. This course focuses on law enforcement emergency vehicle operations. Topics will be identified on a periodic basis in conjunction with law enforcement agencies. (Letter Grade or Pass/No Pass)

### **LE 367 Arrest & Control Update**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Course consists of a comprehensive update and review of arrest and control skills and methods, including safety, liability, control techniques, handcuffing and searching, grappling, and pugilistic. Variable unit range course. (Pass/No Pass)

### **LE 368 Law Enforcement Agency Emergency Vehicle Operations Course Training**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 Corequisite: Must be enrolled in a State of California Commission on Peace Officers Standards and Training (P.O.S.T.) certified Law Enforcement Academy.  
 Limitations on Enrollment: Must possess a valid driver's license to operate a motor vehicle within the State of California.

This course is designed to satisfy POST requirements for basic training in vehicle operations for Recruits/Cadets enrolled in a POST certified Law Enforcement Academy. The student will learn defensive driving principles and techniques, recognize that emergency response (Code 3) driving demands a high level of concentration and instant reactions, understand that a vehicle pursuit is never more important than the safety of officers and the public, and be proficient in the operation of the emergency vehicle and understand dynamic forces. (Pass/No Pass)

### **LE 370 Arrest and Control Instructor Update**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: P.O.S.T. and Standards and Training for Corrections certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Course consists of review and update of arrest and control skills, teaching and training methods including safety, liability, control techniques, handcuffing and searching, grappling, and pugilistic. Previous state certification as an Arrest & Control Instructor is required. May be repeated as often as necessary for purposes of recertification. (Pass/No Pass)

### **LE 371 Arrest and Control Instructor Certification Course**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: P.O.S.T. and Standards and Training for Corrections certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. This P.O.S.T. and STC certified course is designed to prepare the student as an instructor in arrest and control methods and meets the P.O.S.T. training requirements for Arrest and Control Instructors pursuant to regulations 1070/1082 for arrest and control courses. (Letter Grade Only)

### **LE 372 Physical Training Instructor**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: P.O.S.T. certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. This P.O.S.T. certified course is designed to prepare the student as an instructor in physical training methods and meets the P.O.S.T. training requirements for Law Enforcement Basic Academy Physical Training Instructors pursuant to regulation 1070/1082 for the regular basic course. (Pass/No Pass)

### **LE 421 Complaint Dispatcher**

#### **4.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Emphasizes the responsibilities and tasks of the public safety dispatcher in law enforcement and fire agencies. Students learn and demonstrate in practical simulations acceptable telephone and radio procedures as well as effective decision-making. (Letter Grade Only)

### **LE 424 PC 832 Arrest**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Freedom from illness or disability that would prevent the student from safely performing the required arrest and control physical skills.

This course is a survey of the laws of arrest, search and seizure, and use of force. Course includes skill development and assessment of physical arrest and control methods. Meets all requirements for certification under California Penal Code section 832 in laws and methods of arrest for limited function peace officers and other public officers as required by statute. (Fall, Spring, Summer) (Letter Grade Only)

### **LE 425 PC 832 Firearms**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Freedom from illness or disability that would prevent the student from safely participating in live fire shooting activities. Students not employed (as a peace officer) or sponsored by a California law enforcement agency are required to obtain a CA Department of Justice (DOJ) Firearms Clearance (PC13511.5).

This course is a basic knowledge and skills course in firearms for peace officers newly assigned to carry a firearm in the course of their duties. Course includes skill development and assessment of fundamentals of shooting, firearms nomenclature, maintenance, and safety. Meets requirements for certification under California Penal Code section 832 for limited function peace officers to carry and use firearms as required by statute. Presented over three consecutive days including two full days on a local firing range. (F,S,U) (Fall, Spring, Summer) (Letter Grade Only)

### **LE 426 Patrol Rifle Course**

#### **0.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Limitations on Enrollment: Students must 1) Be free of felony convictions; 2) possess a valid California Driver's License; 3) undergo a fingerprint and criminal history check; 4) be a minimum of 18 years of age; 5) be a United States high school graduate; pass the GED, pass the California High School Proficiency Examination, or have attained a two-year or four-year degree from an accredited college or university; and 6) complete a medical suitability examination.

Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent enrollment eligibility is not a guarantee that state regulatory and licensing authorities will also grant equivalency for licensure or employment purposes. Patrol Rifle Course, long/short barrel, meets POST 1081 Mandate and Penal Code section 33220(b). P.O.S.T. describes this course as a rifle course part II. The course covers law update, review of use of force issues, agency policies, mission,

safety issues, nomenclature, specifications, capabilities, firearm care, breakdown, and cleaning, tactical considerations, skill development and qualifications. (Letter Grade Only)

### **LE 427 Bicycle Patrol**

#### **1.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Limitations on Enrollment: Students must 1) Be free of felony convictions; 2) possess a valid California Driver's License; 3) undergo a fingerprint and criminal history check; 4) be a minimum of 18 years of age; 5) be a United States high school graduate; pass the GED, pass the California High School Proficiency Examination, or have attained a two-year or four-year degree from an accredited college or university; and 6) complete a medical suitability examination.

Prerequisite: POST certified basic law enforcement academy or equivalent as determined by the Director, Law Enforcement Training. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency

Provides instruction on the skills necessary to properly use a bicycle for patrol, including bicycle maintenance, riding skills, apprehension techniques and tactical firearms. Curriculum includes basic riding skills, tactical firearms, equipment, nutrition, physical fitness and basic bicycle maintenance. (Letter Grade or Pass/No Pass)

### **LE 440 Basic Driving Skills**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Students must possess a valid driver's license and have no physical conditions that would prohibit them from safely operating a motor vehicle.

This course is designed to improve basic driving skills to include defensive driving techniques, collision avoidance, slow speed precision driving maneuvers and driving simulator practice. Students are required to study the California Driver Handbook prior to the class and bring the California Driver Handbook to the class. (Letter Grade or Pass/No Pass)

### **LE 441 Advanced Driving Skills II**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Students must possess a valid driver's license and have no physical conditions that would prohibit them from safely operating a motor vehicle.

Prerequisite: LE 440 - Basic Driving Skills  
 This course is designed to reinforce basic driving skills in addition to advanced simulator training and vehicle control techniques to include skid control, braking, acceleration and turning. Students are required to study the California Driver Handbook prior to the class and bring the California Driver Handbook to the class. (Letter Grade or Pass/No Pass)

### **LE 480 Women in Public Safety Careers**

#### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Limitations on Enrollment: Students may be prohibited from enrolling based on health and safety issues. Students will be



participating in rigorous physical activities including lifting weights from the floor to overhead, strength training with weight machines and free weights, calisthenics such as push-ups and sit-ups, running distances of 1 ½ miles or farther, sprinting 200 yards, climbing 6 foot fences and walls, climbing ladders, walking and climbing embankments and stairways with ambulance gurneys and stretchers, climbing flights of stairs while dragging fire hoses and wearing several pounds of equipment.

This course is designed to prepare women for successful completion of a Public Safety Basic Academy in Law Enforcement, Fire Technology or Emergency Medical Services. This course will focus on physical, academic, emotional and psychological preparation. (Letter Grade or Pass/No Pass)

## LGBT Studies

### LGBT 101 Introduction to LGBT Studies

#### 3.0 units

Acceptable for credit: Transfer CSU

This introductory course examines a wide range of issues related to the lesbian, gay, bisexual, and transgender community, and how those issues impact family, education and the community. (Fall) (Letter Grade or Pass/No Pass)

### LGBT 102 LGBT Communities, Family and Education in the 21st Century

#### 3.0 units

Acceptable for credit: Transfer CSU

This course examines the Lesbian, Gay, Bisexual, Transgender and Queer community in the 21st century including issues, events, and activism impacting LGBTQ families and education. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## Learning Skills

### LS 101 Success In College

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

Assists students in considering individual development with the goal of increasing knowledge of self and others within the college. Topics include self-knowledge and assessment, learning to learn, and making the best use of college resources. This course is not open to students who are enrolled in or have received credit for Personal Development 101 or Personal Development 105. (Letter Grade or Pass/No Pass)

### LS 189 Independent Projects

#### 1.0 unit

Acceptable for credit: Transfer CSU

Acceptable for credit: CSU, UC-Determined after admission Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the

project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## LS 312 Adaptive Computer and Learning Skills

### 2.0 units

Acceptable for credit: C - Credit - Not Degree Applicable

An overview of adaptive computer technologies for students with learning, physical, and/or visual disabilities. Topics include assistive software, handheld devices, adaptive computer strategies, adaptive learning strategies, and new technologies. Lecture: 1 hour per week. Lab: 3 online. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Medical Assisting

### MA 305 Body Systems and Disease

#### 5.0 units

Acceptable for credit: D - Credit - Degree Applicable

A study of medical terminology, anatomy, physiology, pathophysiology, diagnostic testing and treatment modalities. The course is not open to students who are currently enrolled or have received credit for MB 305. (Fall) (Letter Grade Only)

### MA 350 MA Fundamentals

#### 2.0 units

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Admittance to MA program

The course introduces the student to the medical assisting profession including aspects of the work environment, laws that govern the profession, code of ethics, multicultural issues, communication techniques, and the profession characteristics that enable the medical assistant to be a successful member of a health care team. Study skills, critical thinking, and basic pharmacological math are also included. (Letter Grade Only)

### MA 351 MA Clinical Procedures 1

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Admittance to MA program

The course is designed to prepare the student to assist the doctor in selected phases of clinical procedures. It emphasizes asepsis, physical examination, screening practices, including care and use of equipment. (Letter Grade Only)

### MA 352 MA Administrative Procedures

#### 4.0 units

Acceptable for credit: D - Credit - Degree Applicable

The course explores administrative office tasks including secretarial and accounting procedures, written and oral communications, appointment scheduling, and records

management. Topics include insurance, banking, professional fees, billing, and collection of fees. Administrative legal and ethical issues are addressed. Computer applications are employed for most functions in the medical field. The course is not open to students who are currently enrolled or have received credit for MB 352. (Fall, Spring) (Letter Grade Only)

### **MA 353 MA Clinical Procedures 2**

#### **5.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Admittance to MA program  
 The course is designed to provide the student with the opportunity to develop skills required to perform medical office laboratory procedures and to provide patient education. (Spring) (Letter Grade Only)

### **MA 355 MA Pharmacology**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Admittance to MA program; and Successful completion of first semester MA courses  
 The course is designed to provide instruction in the scope of practice of the Medical Assistant in medication administration. Included are drug classifications, drug measurement systems, and calculation of dosages. Parenteral and non-parenteral drug administration techniques are practiced. (Letter Grade Only)

### **MA 356 MA Job Success Externship**

#### **3.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Limitations on Enrollment: Admittance to MA program; and Successful completion of the first semester MA courses.  
 The course provides an opportunity for students to be exposed to the actual work environment and practice job skills learned in the program. Students interface regularly with faculty during the experience. (Pass/No Pass)

### **MA 360 Medical Billing & Insurance**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Corequisite: MA 361 - Coding for Medical Insurance  
 Limitations on Enrollment: Successful completion of first semester MA courses  
 The course covers practices and principles of health insurance using medical terminology for completion of medical forms. It is an introduction to various types of medical billing practices including the pegboard system, computerized billing, basic insurance forms, collections, and basic legal aspects of billing. (Fall) (Letter Grade Only)

### **MA 361 Coding for Medical Insurance**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Corequisite: MA 360 - Medical Billing & Insurance  
 Limitations on Enrollment: Admittance to the MA program  
 The course covers practices and principles of health insurance and health care finance coding procedures. International Classification of Diseases 10th Revision Clinical Modification (ICD 10-CM), current Healthcare Common Procedure Coding System (HCPCS)

and Current Procedural Terminology (CPT) guidelines for coding and reporting are utilized in practical application scenarios. (Spring) (Letter Grade Only)

### **MA 379A Success in MA Practice**

#### **1.5 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
 Limitations on Enrollment: Completion of Medical Assisting Program within the past 5 years; and two years of recent work experience as a medical assistant  
 The course prepares students for the challenges in Registered Medical Assistant (RMA) practice. It refreshes the fundamentals of practice and provides opportunities to perform the functions and procedures within the scope of entry level medical assistant. The course is designed for students who have completed a medical assisting program within five years and/or two years of recent work experience as a medical assistant. (Pass/No Pass)

## **Mathematics**

### **MATH 100 Nature of Modern Mathematics**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
 Prerequisite: MATH 309 - Algebra and Math Literacy ; or MATH 331 - Algebra 2 ; or prior completion of MATH 333 and MATH 334  
 A study of contemporary topics in mathematics including statistics, social choice, management science, and geometric and algebraic patterns. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MATH 105 Mathematics for Teachers**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU  
 C-ID Course Number: Math 120  
 Prerequisite: MATH 331 - Algebra 2 ; or prior completion of Math 334 Algebra 2: Part 2  
 A study of basic concepts of mathematics required for the liberal studies major and the multiple subject teaching credential. It is recommended for current elementary and junior high school teachers. It is also recommended for the career technical single subject education credential candidate. Topics include development of critical thinking, set theory, logic, numeration systems, the set of integers, elementary number theory, the set of rational numbers, the set of real numbers, and measurement of geometric figures. (Fall, Spring) (Letter Grade Only)

### **MATH 121 Trigonometry**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
 Prerequisite: MATH 331 - Algebra 2 or successful completion of MATH 334  
 The study of directed angles, degree/radian measures of angles, trigonometric functions of angles and of numbers, solutions of right and oblique triangles, identities, functions of composite angles, graphs, equations, inverse functions, vectors and complex numbers. (Fall, Spring) (Letter Grade Only)

### **MATH 123 Elementary Statistics**

#### **4.0 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

C-ID Course Number: MATH 110

Prerequisite: MATH 309 - Algebra and Math Literacy ; or MATH 331 - Algebra 2 ; or Math 333/334

A study of descriptive and inferential statistics including applications in the behavioral and natural sciences. Topics include classification and analysis of data, probability, distributions, sampling, the binomial, normal, t, F, and chi-square distributions, confidence intervals, hypothesis testing, regression analysis, analysis of variance and non-parametric methods. Calculators and/or computers will be used throughout. (Fall, Spring, Summer) (Letter Grade Only)

### **MATH 123S Support For Math 123: Elementary Statistics**

**1.0 unit**

Acceptable for credit: Transfer CSU

Corequisite: MATH 123 - Elementary Statistics

This course is offered as a supplement for students enrolled in Math 123, Elementary Statistics. It is intended for students for whom support has been recommended or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring, Summer) (Pass/No Pass)

### **MATH 131 College Algebra**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: MATH 331 - Algebra 2 ; or Math 334 - Algebra 2: Part 2

College level course in algebra for majors in science, technology, engineering, and mathematics: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; analytic geometry. (Fall, Spring, Summer) (Letter Grade Only)

### **MATH 131S Support For Math 131: College Algebra**

**1.5 units**

Acceptable for credit: Transfer CSU

Corequisite: MATH 131 - College Algebra

This course is offered as a supplement for students enrolled in Math 131; College Algebra. It is intended for students for whom support has been recommended or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring, Summer) (Pass/No Pass)

### **MATH 135 Calculus with Applications**

**4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: Math 140

Prerequisite: MATH 331 - Algebra 2

Techniques of calculus as applied to problem-solving in business and social, behavioral, and natural sciences, including limits, continuity, differentiation and integration in one and several dimensions, optimization, transcendental functions, and the use of computing technology. (Fall, Spring) (Letter Grade Only)

### **MATH 135S Support For Math 135: Calculus with Applications**

**1.5 units**

Acceptable for credit: Transfer CSU

Corequisite: MATH 135 - Calculus with Applications

This course is offered as a supplement for students enrolled in Math 135, Calculus with Applications. It is intended for students for whom support has been recommended or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring) (Pass/No Pass)

### **MATH 141 Precalculus**

**6.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: MATH 331 - Algebra 2 ; or MATH 334

Preparation for calculus: the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions, analytic geometry, and polar coordinates. The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, and introduction to vectors. This is an accelerated one semester alternative to the two semesters of trigonometry (Math 121) and College Algebra (Math 131). (Fall, Spring, Summer) (Letter Grade Only)

### **MATH 141S Support For Math 141: Precalculus**

**1.5 units**

Acceptable for credit: Transfer CSU

Corequisite: MATH 141 - Precalculus

This course is offered as a supplement for students enrolled in Math 141, Precalculus. It is intended for students for whom support has been recommended or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring, Summer) (Pass/No Pass)

### **MATH 179A Support for Math 123: Elementary Statistics**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

This course is offered as a supplement for students enrolled in Math 123, Elementary Statistics. It is intended for students for whom support has been recommended or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring) (Pass/No Pass)

### **MATH 181 Calculus 1**

**4.0 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

C-ID Course Number: MATH 210, MATH 900S

Prerequisite: MATH 141 - Precalculus ; or MATH 121 -

Trigonometry ; and MATH 131 - College Algebra

The first in a two-semester sequence comprising first-year calculus. Topics include functions, limits, continuity, the derivative, differentiation of algebraic, trigonometric and transcendental functions, applications of differentiation, the definite integral, and the use of technology to solve calculus problems. (Fall, Spring, Summer) (Letter Grade Only)

**MATH 182 Calculus 2****4.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: MATH 220, MATH 900S  
Prerequisite: MATH 181 - Calculus 1

The second in a two-semester sequence comprising first-year calculus. Topics include methods and applications of integration, sequences and series, Taylor series, an introduction to differential equations, and the use of technology to solve calculus problems. (Fall, Spring) (Letter Grade Only)

**MATH 183 Multivariable Calculus****4.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: MATH 230  
Prerequisite: MATH 182 - Calculus 2

Topics include vectors, functions of several variables; differentiation and integration in several dimensions; change of variables; parameterized curves and vector fields, line and surface integrals; Green's, Stokes', and divergence theorems. (Fall, Spring) (Letter Grade Only)

**MATH 184 Linear Algebra/Differential Equations****5.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: MATH 910S  
Prerequisite: MATH 182 - Calculus 2

First order ordinary differential equations, including separable, linear, homogeneous of degree zero, Bernoulli and exact with applications and numerical methods. Solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Matrix algebra, solutions of linear systems of equations, and determinants. Vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure. Linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and symmetric matrices. (Fall, Spring) (Letter Grade Only)

**MATH 189 Independent Projects****3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary

according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

**MATH 309 Algebra and Math Literacy****5.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: MATH 521 - Foundations of Mathematics ; or MATH 531 - Pre-Algebra

This course will focus on mathematical modeling, including linear equations, quadratic equations and exponential equations. Fundamentals of algebra, geometry, statistics and measurement will be discussed. Numeracy, graphing and problem solving strategies will be incorporated throughout the course. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**MATH 311 Algebra 1****4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: MATH 531 - Pre-Algebra ; or MATH 521 - Foundations of Mathematics ; or MATH 579A

A study of the fundamental ideas and methods used to simplify expressions and solve equations and inequalities, including applications. Topics covered include the real numbers, linear equations and inequalities, graphing, polynomials, factoring, rational expressions, introduction to square roots, and quadratic equations. This course is not open to students who are enrolled in or have received credit for MATH 313 or 314. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**MATH 321 First Year Geometry****3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
Prerequisite: MATH 309 - Algebra and Math Literacy ; or MATH 311 - Algebra 1 ; or completion of Math 313 and 314

A study of basic geometry principles including constructions, congruence, parallels, right triangles, similarity, circles, and proofs. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**MATH 331 Algebra 2****4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: MATH 321 - First Year Geometry  
Prerequisite: MATH 309 - Algebra and Math Literacy ; or MATH 311 - Algebra 1 ; or MATH 313 and MATH 314

A continuation of the study of methods used to simplify expressions and solve equations and inequalities, including applications. Topics covered include exponents and radicals, rational and radical expressions, complex numbers, nonlinear equations and inequalities, functions and their graphs, systems of equations, exponential expressions, and logarithms. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**MATH 331S Support For Math 331: Algebra 2****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Corequisite: MATH 331 - Algebra 2

This course is offered as a supplement for students enrolled in Math 331; Algebra 2. It is intended for students for whom

support has been recommended. or required. The course reviews prerequisite topics and strategies to be a more successful math student. (Fall, Spring, Summer) (Pass/No Pass)

## **MATH 521 Foundations of Mathematics**

### **5.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
Prepares students for the algebra sequence and updates mathematical skills for personal, career, or academic advancement. Topics include: fractions, decimals, percents, measurement, signed numbers, simple equations and modeling. The course emphasizes problem solving techniques that are useful in practical situations. Students should have knowledge of multiplication tables, division, subtraction, number operations and number sense, measurement, basic geometry, and patterns. The course is not open to students who have passed MATH 511. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **MATH 531 Pre-Algebra**

### **3.0 units**

Acceptable for credit: C - Credit - Not Degree Applicable  
Prepares students for the algebra sequence and updates mathematical skills for personal, career, or academic advancement. Topics include: an introduction to using a scientific calculator; estimation; operations with whole numbers, fractions, decimals, percents, and integers; ratios and proportions; unit conversion; numerical and algebraic expressions; exponent rules; translating from words to expressions and equations; solving linear equations. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Multimedia Arts And Communication**

### **MMAC 101 Introduction to Multimedia**

#### **2.0 units**

Acceptable for credit: Transfer CSU  
Corequisite: MMAC 102 - Introduction to Multimedia Lab  
An introduction to interactive multimedia as a means of diverse creative expression and communication. Includes basic multimedia processes such as project development, interface design, and digital media creation. Students will create multimedia projects in the co-requisite lab. Course software: Adobe Photoshop, Animate, Audition, and Acrobat. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 102 Introduction to Multimedia Lab**

#### **1.0 unit**

Acceptable for credit: Transfer CSU  
Corequisite: MMAC 101 - Introduction to Multimedia  
A hands-on introduction to the skills, tools, and processes of interactive multimedia, including creation of image, sound, animation and video files. Students will learn to use authoring software and simple scripting language to develop their projects. Course software: Adobe Photoshop, Animate, Audition, and Acrobat. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 112 Web Page Design**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 108 - Design 1 on the Computer ; or ART 108 - Design 1 on the Computer ; or GRPH 111 - Digital Imagery Lab ; and GRPH 112 - Digital Imagery  
An introduction to the skills and tools necessary for producing interactive websites for traditional and mobile platforms. Students will learn to plan and create professional websites using current software as well as HTML coding. Software taught: Adobe Photoshop, Dreamweaver and Flash. (Fall) (Letter Grade or Pass/No Pass)

### **MMAC 114 Game and App Design**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
Advisories: MMAC 129 - Digital Tools for Visual Media ; or GRPH 129 - Digital Tools for Visual Media  
Hands-on instruction in the techniques and tools for adding dynamic motion and interactivity to games and applications for a variety of media devices. Includes integration of graphics, video, text, and sound on desktop computers, tablets, phones, and other media devices. (Spring) (Letter Grade or Pass/No Pass)

### **MMAC 115 Introduction To Animation**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
An introduction to animation production including classical character animation and non-traditional techniques. This course is not open to students who are enrolled in or have received credit for Art 115 or FILM 115. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 116 Intermediate Animation**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: ART 115 - Introduction to Animation ; or MMAC 115 - Introduction To Animation ; or FILM 115 - Intro To Animation  
A continuation of MMAC 115 emphasizing the development and refinement of animation skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have received credit for FILM 116. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 117 3D Computer Animation 1**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
Advisories: GRPH 111 - Digital Imagery Lab ; and GRPH 112 - Digital Imagery ; or FILM 110 - Introduction to Motion Picture and Video Production  
An introduction to 3D modeling and animation, using professional software to create characters, environments, and animations on the computer. This course is not open to students who are enrolled in or have received credit for FILM 117. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 118 3D Computer Animation 2**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
Prerequisite: FILM 117 - 3D Computer Animation 1 ; or MMAC 117 - 3D Computer Animation 1  
An intermediate experience in 3D computer animation that reproduces the industry work environment for production of

animation projects and show reels. This course is not open to students who have completed or who are enrolled in FILM 118. (Fall) (Letter Grade or Pass/No Pass)

### **MMAC 125 Computer Video Editing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 1.00

Presents non-linear video editing including combining clips and digital source materials, editing digital movies, and preparing digital movies for the web. This course is not open to students who are enrolled in or have received credit for Film 125. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MMAC 126 Introduction to Motion Graphics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: GRPH 111 - Digital Imagery Lab ; and GRPH 112 - Digital Imagery

Explores new digital approaches for creating and compositing powerful visual imagery for use in film/video, multimedia, and design. Includes integration of graphics, video, text, and sound on desktop computers. This course is not open to students who are enrolled in or have completed FILM 126. Course software: Adobe After Effects and Photoshop. (Fall) (Letter Grade or Pass/No Pass)

### **MMAC 127 Digital Video Post-Production**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: MMAC 125 - Computer Video Editing ; or FILM 125 - Computer Video Editing

This class is for students who wish to expand their digital video postproduction skills and learn to present and publish digital work on emerging media platforms. The course covers advanced non-linear video editing, digital effects and filters, color correction, and compression for distribution over the Internet and to mobile devices such as tablets and cellular phones. The class is a lecture/lab combination with lab work on Apple computers using current Final Cut Pro and Adobe Creative Suite software . Not open to students who are enrolled in or have received credit for FILM 127. (Spring) (Letter Grade or Pass/No Pass)

### **MMAC 128 Intermediate Motion Graphics**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: FILM 126 - Introduction to Motion Graphics ; MMAC 126 - Introduction to Motion Graphics

Intermediate study in motion graphics utilizing current industry standard software. Emphasizes the expansion and refinement of digital visual effects skills through involvement in class and individual projects. This course is not open to students who are enrolled in or have completed FILM 128. Course software: Adobe After Effects, Photoshop, current industry software. (Fall) (Letter Grade or Pass/No Pass)

### **MMAC 129 Digital Tools for Visual Media**

#### **3.0 units**

Acceptable for credit: Transfer CSU

A hands-on overview of computer operations, industry standard software and equipment common to digital visual communication. Students will apply art and design theory in the exploration of tools used in vector graphics, digital imaging, motion graphics and animation, and digital media interface design. Topics include media development, interactivity, file formats, storage and file management, industry trends and career options. Familiarity with current design software, hardware, input, and output devices will be established. Assignments integrate digital tools, techniques, and creative design using text and image, digital video and audio, and interactivity. The course is not open to students who are enrolled or have completed GRPH 129. (Fall) (Letter Grade or Pass/No Pass)

### **MMAC 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 3.00

Prerequisite: TBD

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Pass/No Pass)

### **MMAC 380 Web-Based Multimedia Lab**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 1.00

Corequisite: MMAC 112 or MMAC 114

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

### **MMAC 381 Disk-Based Multimedia Lab**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 2.00

Corequisite: MMAC 101 or MMAC 102 or MMAC 116 or MMAC 117 or MMAC 118 or GRPH 116 or FILM 117 or FILM 118

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

### **MMAC 382 Video-Based Multimedia Lab**

#### **1.0 unit**



Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 2.00

Corequisite: MMAC 125 or MMAC 126 or MMAC 127 or MMAC 128 or FILM 125 or FILM 126 or FILM 127 or FILM 128

An open-entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite course. (Fall, Spring) (Pass/No Pass)

## Machine Technology

### MT 109 Survey of Machining and Manufacturing

4.0 units

Acceptable for credit: Transfer CSU

An introduction to machining and manufacturing technology where students will learn basic tool geometry, blueprint reading, shop math, precision measuring tools, co-ordinate systems and how to safely operate a variety of industrial equipment. (Letter Grade or Pass/No Pass)

### MT 110 CNC G Code

4.0 units

Acceptable for credit: Transfer CSU

Advisories: MT 109 - Survey of Machining and Manufacturing

This course is designed for students with machine shop experience seeking to learn set-up, operation and programming of computer numerical controlled (CNC) machines. Included is an introduction to Computer Aided Design and Manufacturing (CAD/CAM). (Letter Grade or Pass/No Pass)

### MT 111 CNC CAD/CAM

4.0 units

Acceptable for credit: Transfer CSU

Advisories: MT 109 - Survey of Machining and Manufacturing

This course is designed for students with computer numerical controlled (CNC) machining and/or computer-aided design and computer-aided manufacturing (CAD/CAM) experience who wish to learn advanced set-up, operation and programming using CNC machines and CAD/CAM software. (Letter Grade or Pass/No Pass)

### MT 112 CNC Multi-Axis

4.0 units

Acceptable for credit: Transfer CSU

Advisories: MT 111 - CNC CAD/CAM

An advanced course in computer numerical controlled (CNC) machining where students will learn to design complex parts using CAD/CAM software and produce them on 4 and 5 axis CNC milling machines and lathes with "live tooling." (Letter Grade or Pass/No Pass)

### MT 113 SolidWorks 1

3.0 units

Acceptable for credit: Non-Transferable

An introduction to three-dimensional computer aided design (CAD/CAM) where students will learn to design complex objects using SolidWorks. At the end of the course, students will be prepared for the Certified SolidWorks Associate (CSWA) assessment. It is recommended that students be capable of using a personal computer and managing computer files. (Letter Grade or Pass/No Pass)

### MT 114 SolidWorks 2

3.0 units

Acceptable for credit: Transfer CSU

Advisories: MT 113 - SolidWorks 1

An advanced course in three dimensional computer-aided-design (CAD) where students will learn to design complex parts and assemblies using SolidWorks. Students will learn to use SolidWorks to design Weldments, Sheet Metal components and Molds. This course will prepare students for the Certified SolidWorks Professional (CSWA) exam. (Letter Grade or Pass/No Pass)

### MT 115 Lean Manufacturing

units

Acceptable for credit: Transfer CSU

An introduction to the theory and practice of continuous improvement where students will learn to identify and eliminate waste, improve quality and increase efficiency in every area of manufacturing operations. Students will participate in an actual Kaizen (or continuous improvement) event to make a change for the better in a real world setting. (Fall, Spring) (Letter Grade or Pass/No Pass)

### MT 116 Mastercam 1 (CAD/CAM)

3.0 units

Acceptable for credit: Transfer CSU

An introduction to Mastercam, a leading software for computer-aided design/computer-aided manufacturing (CAD/CAM). Students will learn to create lines and arcs, simple surfaces and solids. Students will create tool paths and machine code for CNC lathes, mills and routers. (Fall, Spring) (Letter Grade or Pass/No Pass)

### MT 117 Print Reading and Interpretation

3.0 units

Acceptable for credit: Transfer CSU

An introductory class where students will learn to read engineering drawings, evaluate print specifications, recognize orthographic views and visualize the actual objects or projects shown in the illustration. This course is not open to students who are enrolled in or have received credit for AB 330, AT 330, ET 330, MT 330, or AB/AT/ET 117. (Fall, Spring) (Letter Grade or Pass/No Pass)

### MT 118 Understanding and Measuring GD&T

3.0 units

Acceptable for credit: Transfer CSU

Advisories: MT 117 - Print Reading and Interpretation

An advanced class where students will learn to interpret complex manufacturing specifications, symbols and standards, including those referred to as Geometric Dimensioning and Tolerancing (GD&T). Students will evaluate components using a coordinate measuring machine and learn to generate accurate inspection reports. This course is not open to students who have received credit for MT 331. (Letter Grade or Pass/No Pass)

### MT 189 Independent Projects

1.0 - 3.0 units

Acceptable for credit: Transfer CSU

Acceptable for credit: CSU, UC-Determined after admission Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **MT 300 Shop Math and Measurement**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
An introduction to the mathematics used in the Industrial Technology programs. Students will learn to solve problems using fractions, decimals, percentage, ratios and basic geometric shapes. Students will learn about the Cartesian coordinate system and how to use a variety of basic and precision measuring tools from rulers and tape measures to calipers and micrometers. This course is not open to students who are enrolled in, or have received credit for MT 381, AB 381, AT 381, ET 381, WLDT 381, or AT/AB/ET/WLDT 300. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MT 301 Introduction to Safety**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
An introduction to manufacturing safety principles and practices. Students will learn about Material Safety Data Sheets (MSDS), work in confined space, lock out/tag out, zero energy state, hazardous materials, storage of flammable materials, storage of fuel gas and high pressure gas cylinders, portable powered tool safety, hand tool safety, record keeping, training, employer enforcement of safety regulations, and employee right to know. This course will prepare students for the optional Certified Production Technician (CPT) assessment through the Manufacturing Skill Standards Council (MSSC). (Letter Grade or Pass/No Pass)

### **MT 302 Quality & Process Improvement**

#### **2.0 units**

Acceptable for credit:  
An introduction to quality practices in manufacturing. Students will learn to read and interpret blueprints, understand Geometric Dimensioning and Tolerancing(GD&T, use essential measuring tools, perform root cause failure analysis, adopt methods of process improvement and employ statistical tools. This course will prepare students for the optional Certified Production Technician

(CPT) assessment through the Manufacturing Skill Standards Council (MSSC). (Letter Grade or Pass/No Pass)

### **MT 303 Manufacturing Processes and Production**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to manufacturing procedures, practices and principles. Students will learn about mechanical principles, machining operations and tooling, production materials documentation, manufacturing planning, production control, inventory management and product distribution. This course will prepare students for the optional Certified Production Technician (CPT) assessment through the Manufacturing Skill Standards Council (MSSC). (Letter Grade or Pass/No Pass)

### **MT 304 Maintenance Awareness**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to manufacturing maintenance awareness. Students will learn about basic electrical circuits, electrical, pneumatic and hydraulic power systems, lubrication concepts, bearings, and couplings, belt and chain drives and the concepts of machine control and automation. This course will prepare students for the optional Certified Production Technician (CPT) assessment through the Manufacturing Skill Standards Council (MSSC). (Letter Grade or Pass/No Pass)

### **MT 305 Select Machine Projects**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 2.00

Prerequisite: MT 109 - Survey of Machining and Manufacturing  
Projects selected by the student upon the recommendation of any faculty member are developed under the direct counseling and guidance of the instructional staff in the Machine Technology disciplines. All work is completed within the machine facilities under the direct supervision of the responsible instructor. The student will develop the skills necessary to complete the project. (Letter Grade or Pass/No Pass)

### **MT 306 Advanced Machining**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: MT 109 - Survey of Machining and Manufacturing

This course will provide advanced training, continuing education and professional development for persons using industrial machine tools. Students will learn safe work habits, advanced set-up strategies and machining fundamentals such as the selection of optimum cutting speeds and feeds. (Letter Grade or Pass/No Pass)

### **MT 315 Advanced Machining**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

Prerequisite: MT 110 - CNC G Code

An individualized course of instruction covering those skills required for employment in a manufacturing machining facility, general machining facility, or a maintenance machining facility. The student will select 4, 8, 12, or 16 units from the appropriate skill

cluster table (available in the Counseling Center). (Letter Grade or Pass/No Pass)

### **MT 370 SkillsUSA**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, ARCH 370, AT 370, EL 370, ET 370, or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Letter Grade or Pass/No Pass)

### **MT 389 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit:

MT 389 Independent Projects is for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search or development of skills and competencies under faculty advisement and supervision. Students wishing to enroll in MT 389 Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be issued no later than the end of the second week of the semester. Units are awarded depending upon satisfying performance and the amount of time committed by the students to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **Music**

### **MUS 100 Music Appreciation**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An overview of the music of Western (European) civilization including analysis of its common forms, examination of its basic elements, survey of its development, and discussion of its relationship to the other arts and to general cultural history. Designed for the general student; music majors should enroll in Music 101 and 102. (Letter Grade or Pass/No Pass)

### **MUS 101 Music History Ancient-Baroque**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition

A study of the development of the music of Western civilizations from the ancient Greeks and early Christian periods through music of the eighteenth-century Baroque period. Recommended course for the music major. (Fall) (Letter Grade or Pass/No Pass)

### **MUS 102 Music History Classical-Modern**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: ENGL 101 - Freshman Composition: Exposition ;

MUS 101 - Music History Ancient-Baroque

A study of the development of music from the Classic and Romantic periods through the contemporary period. Recommended course for the music major. (Spring) (Letter Grade or Pass/No Pass)

### **MUS 104 Roots of Pop, Rock, Jazz**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

A general survey course tracing the roots and special idiosyncrasies of the American popular music tradition from medieval Europe and Africa to the commercial and non-commercial world of today. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 106 World Music Appreciation**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

A study of the music of many cultures around the world. Includes an overview of the cultures and social situations that gave rise to these varied musical forms of expression. (Letter Grade or Pass/No Pass)

### **MUS 110 Music Fundamentals**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

A basic and elementary approach to reading music, writing musical notation, and singing simple songs. Designed for the non-music major and the Elementary Teaching Credential candidate. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **MUS 111 Music Theory 1**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: MUS 120, MUS 125

Advisories: MUS 110 - Music Fundamentals ; or The ability to read music.

A comprehensive course dealing with the fundamentals of traditional music theory and its applications in classical, commercial and global music. Course concepts include rhythm, meter, basic properties of sound, intervals, scales, modes, triads, seventh chords, 4-part voice leading, phrase structure, cadential formulas, figured-bass and non harmonic tones. These topics will be studied through guided composition and analysis as well as ear training, sight singing, aural analysis and dictation. (Letter Grade or Pass/No Pass)

### **MUS 112 Music Theory 2**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: MUS 130, MUS 135

Prerequisite: MUS 111 - Music Theory 1

A continuation of Comprehensive Music Theory 1. In addition, through guided composition and analysis, the course will include: an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction

to secondary chords and modulation. These rhythmic, melodic and harmonic materials will be applied and developed through ear training, sight singing and dictation. (Letter Grade or Pass/No Pass)

### **MUS 113 Music Theory 3**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: MUS 140, MUS 145

Prerequisite: MUS 112 - Music Theory 2

A continuation of Comprehensive Music Theory 2, dealing with sight singing, ear training, one and two-part melodic dictation, advanced materials of musicianship and rhythmic notation, advanced modulation techniques, tertian extensions of the triad including 9th, 11th and 13th chords, augmented sixth chords, Neapolitan sixth chords, advanced four-part harmonic writing, and analysis as well as Sonata form. (Letter Grade or Pass/No Pass)

### **MUS 114 Music Theory 4**

#### **4.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: MUS 150, MUS 155

Prerequisite: MUS 113 - Music Theory 3

A continuation of Comprehensive Music Theory 3 dealing with sight singing, ear training, melodic dictation, complex rhythmic notation, and materials of musicianship, Post-Romantic harmony, quartal and quintal harmony, Impressionist harmonic procedures, Jazz, Atonality, the 12-tone method, integral serialism, aleatorism, Post-Serialism and minimalism. (Letter Grade or Pass/No Pass)

### **MUS 115 Introduction to Sound Recording & Mixing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the equipment, terminology and procedures of sound engineering. Combines lectures and demonstrations with hands-on use of equipment. Students will have the opportunity to use professional sound recording and processing equipment in various recording and mix-down situations. This course is not open to students who are enrolled in or have received credit for Film 120. (Spring) (Letter Grade or Pass/No Pass)

### **MUS 116 Sound Production Techniques**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Explores the digital audio software for recording music and computer-based multi-track sound recording for producing audio for video projects, as well as the use of digital signal processors for mixing and mastering recordings. This course is not open to students who have received credit for or who are currently enrolled in FILM 121. (Letter Grade or Pass/No Pass)

### **MUS 117 Electronic Music MIDI Recording**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the use of Musical Instrument Digital Interface (MIDI). Includes working with synthesizers, sequencing and music notation in a MIDI-controlled environment. This course is intended

for music majors and non-majors. (Spring) (Letter Grade or Pass/No Pass)

### **MUS 118 Intro to Electronic Music**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the various areas of electronic music, including the history of electronic music, sound synthesis techniques and the use of digital and analog synthesizers in a recording studio. Designed for both music majors and non-majors. (Letter Grade or Pass/No Pass)

### **MUS 119 Electronic Music Studio Technique**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Prerequisite: MUS 118 - Intro to Electronic Music

Provides the opportunity for the student to apply and refine the sound synthesis skills introduced in Music 118. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 120 Piano 2**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 128 - Piano 1

A basic piano course covering music reading, playing scales and arpeggios, simple chords, sight reading, and two handed elementary level pieces. Recommended for perspective elementary classroom teachers and music majors who have had little or no piano training. (Fall, Summer) (Letter Grade or Pass/No Pass)

### **MUS 121 Piano 3**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 120 - Piano 2

A continuation of Music 120, covering technical problems, scales, arpeggios, chording, sight reading, fundamentals of technique, and the interpretation of piano literature within the ability of each student. Recommended for prospective elementary classroom teachers and music majors who have had an introduction to piano playing. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 122 Piano 4**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 121 - Piano 3

A study of standard piano repertoire from style periods ranging from the Baroque period to modern works. Students will continue the study of scales, arpeggios, and correct performance practices. (Letter Grade or Pass/No Pass)

### **MUS 123 Voice 2**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 129 - Voice 1

An introduction to the fundamental techniques of vocal performance. Topics include warm-up techniques, proper breathing, phrasing, vocal production diction, as well as an

introduction to the vocal repertoire and associated performance practices. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 124 Voice 3**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 123 - Voice 2

A continuation of the development of vocal performance techniques introduced in MUS 123. Topics include exercises for the extension of the vocal range and improvement of diction and tone, as well as the study and performance of more difficult works from the vocal repertoire. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 125 Beginning Guitar**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

An introduction to the techniques of guitar performance including reading music and performing scales, chord patterns and beginning level pieces. The course is intended for music majors and non-majors. Students must provide his/her own acoustic guitar. (Fall) (Letter Grade or Pass/No Pass)

### **MUS 126 Intermediate Guitar**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 125 - Beginning Guitar

A continuation of Music 125 covering technical problems, scales, chording, sight reading, fundamentals of technique, and the interpretation of guitar literature within the ability of each student. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 127 Voice 4**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: MUS 124 - Voice 3

A study of standard vocal repertoire with an emphasis on solo and small ensemble literature. Students practice correct tone production, diction, stage presence, and style interpretation. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 128 Piano 1**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

An introductory lecture/lab course designed for the first time piano student, with instruction focused on good hand and finger position, learning the notes on the keyboard and music staff, and counting simple rhythms accurately. No prerequisites required. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 129 Voice 1**

#### **2.0 units**

Acceptable for credit: Transfer CSU

An introductory singing lecture/lab course designed for the aspiring singer with little or no knowledge of vocal and music fundamentals. Emphasis is placed on good vocal habits and instruction will include group lessons as well as private coaching, opportunities to work with a piano accompanist, and a recital performance. No prerequisites required. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 130 Mixed Ensemble**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition at first class meeting.

Designed to give singers with varying degrees of musical experience the opportunity to rehearse and perform standard choral literature in a broad range of styles, including a cappella and instrumentally accompanied works. Public appearances are scheduled throughout the semester with an emphasis on community outreach. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 132 Masterworks Chorale**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition at first class meeting.

Study and performance of standard choral literature of the later Baroque and early Classical periods. Includes the study and performance of selected larger, accompanied works. Public concert appearances presenting repertoire in a wide range of styles. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 133 Chamber Voices**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition at first class meeting.

Provides the opportunity to study and perform standard choral literature of the Baroque and Classical periods. A cappella performance is emphasized. Public concert appearances will include repertoire in a wide range of styles, including accompanied works. Audition at first class meeting. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 137 Concert Chorale**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition at first class meeting.

Designed to give singers the opportunity to rehearse and perform standard choral literature with emphasis on large choral works. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 140 Symphonic Band**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition.

The study of band literature, techniques of ensemble playing, and concert performance. Numerous public performances. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 143 Jazz Band**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Designed for members of the Allan Hancock College Jazz Band, which will perform a variety of traditional and contemporary jazz

works. The band will make several appearances during the semester. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 144 Jazz Improvisation**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Prerequisite: Ability to play appropriate instrument and read music.

Focuses on the development of various improvisational techniques in both small ensemble and Big Band Jazz situations. There will be several performances during the course of the semester. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 145 Big Band Jazz**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Prerequisite: Ability to play an appropriate instrument and read music

A performance ensemble that specializes in the Big Band and Swing Music of the 1930s and 1940s. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 146 Jazz Ensemble**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Advisories: ability to play an appropriate instrument and read music

A performance ensemble that specializes in the music of Jazz composers and arrangers from the second half of the 20th century. The ensemble will have several performances each semester. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 151 Concert Band**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

Repeatable: 3.00

Limitations on Enrollment: Audition

The study of concert band literature, with an emphasis on ensemble performance and rehearsal techniques. There will be several public performances. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **MUS 160 Music Business**

#### **2.0 units**

Acceptable for credit: Transfer CSU

An overview of business concerns that affect musicians and composers in the fields of live performance and sound recording. Topics include copyright; royalties; the roles of managers, agents, and attorneys; as well as Internet issues. (Spring) (Letter Grade or Pass/No Pass)

### **MUS 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer to UC, CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the

regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search or development of skills and competencies under faculty advisement and supervision. Independent Projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate Academic Dean, or an instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and approved by the appropriate dean before the last day of enrollment. Units are awarded depending upon satisfying performance and the amount of time committed by the students to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **English As A Second Language (Noncredit)**

### **NESL 550 Fundamentals of Grammar**

#### **units**

Acceptable for credit: N - Noncredit

This course is designed to help students use beginning grammatical forms in reading, writing, and oral/aural contexts. This course requires one lab hour per week. Student lab work includes, but is not limited to, the following: completion of computer-assisted activities as well as assigned grammar, vocabulary, reading, writing, and listening exercises. This is a mirrored course; it is offered at the same time and place as the credit course. Noncredit and credit students take the class together with one instructor and complete the same coursework. No credit is given for this course. (Fall, Spring, Summer) (Noncredit )

### **NESL 7000 Introduction to English: Pre-A**

#### **90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a high-beginning literacy course in Noncredit ESL (NESL). In this course, high-beginning literacy skills are developed and reinforced for students with limited-to-no educational background. Students begin to develop listening, speaking, reading, and writing abilities for life, academic, and career skills. (Fall, Spring, Summer) (Noncredit )

### **NESL 7001 Introduction to English A**

#### **90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a low-beginning course in Noncredit ESL (NESL). Students develop low-beginning listening, speaking, reading, and writing abilities for life, academic, and career skills. (Fall, Spring, Summer) (Noncredit )

### **NESL 7002 Introduction to English A2**

#### **90.0 hours**

Acceptable for credit: N - Noncredit

This is a low-beginning course in NESL. Students develop low-beginning listening, speaking, reading, and writing skills. This course is designed for students who have completed Intro to English A1 or fulfilled entry requirements by taking a placement test. (Noncredit )



**NESL 7003 Introduction to English B****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a high-beginning course in Noncredit ESL (NESL). Students develop high-beginning listening, speaking, reading, and writing abilities for life, academic, and career skills. This course is designed for students who have completed Intro to English A or fulfilled entry requirements by taking a placement test. (Fall, Spring, Summer) (Noncredit )

**NESL 7004 Introduction to English B2****90.0 hours**

Acceptable for credit: N - Noncredit

This is a high-beginning course in NESL. Students develop high-beginning listening, speaking, reading, and writing skills. This course is designed for students who have completed level B1, or fulfilled entry requirements by taking a placement test. (Noncredit )

**NESL 7005 Introduction to English C****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a low-intermediate course in Noncredit ESL (NESL). Students develop low-intermediate listening, speaking, reading, and writing abilities for life, academic, and career skills. This course is designed for students who have completed Intro to English B or fulfilled entry requirements by taking a placement test. (Fall, Spring, Summer) (Noncredit )

**NESL 7006 Introduction to English C2****90.0 hours**

Acceptable for credit: N - Noncredit

This is a low-intermediate course in NESL. Students develop low-intermediate listening, speaking, reading, and writing skills. This course is designed for students who have completed Intro to English C1 or fulfilled entry requirements by taking a placement test. (Noncredit )

**NESL 7007 Introduction to English D****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a high-intermediate course in Noncredit ESL (NESL). Students develop high-intermediate listening, speaking, reading, and writing abilities for life, academic, and career skills. This course is designed for students who have completed Intro to English C or fulfilled entry requirements by taking a placement test. (Fall, Spring, Summer) (Noncredit )

**NESL 7008 Intro to English D2****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a high-intermediate course in NESL. Students develop high-intermediate listening, speaking, reading, and writing skills. This course is designed for students who have completed Intro to English D1 or fulfilled entry requirements by taking a placement test. (Noncredit )

**NESL 7020A Spanish Literacy****90.0 - 102.0 hours**

Acceptable for credit: N - Noncredit

This is a low-beginning literacy course that develops Spanish reading and writing skills. English language skills are gradually introduced. This class emphasizes culturally appropriate curriculum. (Noncredit )

**NESL 7040 Conversation for Beginning ESL****32.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

Build your confidence in speaking English! Practice the conversational skills needed in real-life situations and daily tasks. This beginning-level class focuses on communication with an emphasis on vocabulary, pronunciation, and grammar. This course is appropriate for level A and B students. (Fall, Spring, Summer) (Noncredit )

**NESL 7041 Conversation for Intermediate ESL****32.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

Build your confidence in speaking English! Practice the conversational skills needed in real-life situations and daily tasks. This intermediate-level class focuses on communication with an emphasis on vocabulary, pronunciation, and grammar. This course is appropriate for level C and D students. (Fall, Spring, Summer) (Noncredit )

**NESL 7060 ESL Instructional Lab****8.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

The ESL language lab provides self-paced, instructor-guided support to supplement classroom instruction. Students practice listening, speaking, reading, and writing skills. Software available includes: Rosetta Stone, Reading Plus, Burlington English, MyEnglishLab by Future, Side by Side, and AIM Center access. (Fall, Spring, Summer) (Noncredit )

**Nursing**

The nursing programs at Allan Hancock College provide students interested in nursing the opportunity to progress through the various levels of nursing education in a career ladder, from Nursing Assistant to Licensed Vocational Nurse to Registered Nurse. Students in all nursing programs are required by the clinical agencies to have drug screening and background checks. A positive drug screen or conviction appearing on the background check may make the student ineligible for clinical placement, and therefore ineligible to continue in the program.

**NURS 101 Transitions to Professional Practice****1.5 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program

The course facilitates transition to professional nursing practice. It focuses on ethical and legal issues and personal accountability and responsibility. It analyzes standards of practice and the significance of functioning according to state regulations and statutes. Nursing process and clinical nurse thinking are applied in communication, patient teaching, culture, and across the lifespan. It also identifies

issues and trends that affect nursing practice and healthcare in general. (Spring) (Letter Grade Only)

### **NURS 102 Med Surg Nursing 1**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program

This course focuses on the care of patients across the lifespan with complex medical/surgical health problems. Emphasis is placed on helping clients and their families cope with alterations in body functions throughout the continuum of healthcare. Concepts of pharmacology, health promotion and education, evidence based practice, and interdisciplinary collaboration will be integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 103 RN Practicum 1**

#### **5.0 units**

Acceptable for credit: Transfer CSU

Corequisite: NURS 111 - RN Skills 1

Limitations on Enrollment: Admittance to RN Program

This course provides the student with clinical opportunities to apply theoretical concepts and implement safe care to patients across the lifespan in a variety of care settings. Introduction to complex clinical skills, as well as priority setting, clinical judgment, and tenets of legal and ethical practice, are integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 104 Med Surg Nursing 2**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN program

This course focuses on the care of clients across the lifespan with complex medical/surgical health problems. Emphasis is placed on helping patients and their families cope with alterations in body functions. Concepts of pharmacology, health promotion and education, evidence based practice, and interdisciplinary collaboration will be integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 106 Leadership & Management**

#### **1.5 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program and successful completion of first semester RN courses.

This course facilitates transition to professional nursing practice. It focuses on leadership and management concepts, delegation, teamwork, conflict management, and contemporary issues. It includes change, quality management, applicable ethical and legal standards, and workplace issues. It covers application by examination for nursing licensure. (Fall) (Letter Grade Only)

### **NURS 108 RN Practicum 2**

#### **5.0 units**

Acceptable for credit: Transfer CSU

Corequisite: NURS 112 - RN Skills 2

Limitations on Enrollment: Admittance to RN Program and successful completion of first semester RN courses.

The course provides opportunities to apply nurse caring concepts to people at risk. The student implements the nursing process with

increasing level of independence. It includes a learning-objectives based preceptorship. (Fall) (Letter Grade Only)

### **NURS 109 Med Surg Nursing 3**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN program and

successful completion of first semester RN courses.

This course focuses on advanced concepts of nursing care as they relate to patients across the lifespan with complex, multisystem alterations in health. Emphasis is placed on implementing time management and organizational skills while managing the care of patients with multiple needs and collaborating with the interdisciplinary team. (Fall) (Letter Grade Only)

### **NURS 110 Mental Health Nursing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program and

successful completion of first semester RN courses.

This course focuses on the care of patients across the lifespan experiencing cognitive, mental and behavioral disorders. Emphasis is placed on management of patients facing emotional and psychological stressors as well as promoting and maintaining the mental health of individuals and families. Concepts of crisis intervention, therapeutic communication, anger management, and coping skills are integrated throughout the course. The community as a site for care and support services is addressed. (Fall) (Letter Grade Only)

### **NURS 111 RN Skills 1**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program

This course provides opportunities to further develop clinical thinking and practice advanced nursing skills. These situations integrate previously nursing knowledge, skills, and attitudes with evidence-based protocols in a structured lab setting. (Spring) (Letter Grade Only)

### **NURS 112 RN Skills 2**

#### **0.5 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Admittance to RN Program and

successful completion of first semester RN courses.

This course provides opportunities to develop and practice advanced nursing skills. These complex skills integrate previously learned nursing skills and applied protocols in the structured lab setting. It facilitates clinical thinking, timely decision-making, and nursing actions to address patient conditions. (Fall) (Letter Grade Only)

### **NURS 189 Independent Projects in Nursing**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for student capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, search, or development of skills

and competencies under faculty advisement and supervision. Independent Projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed no later than the end of the second week of the semester. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 units - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

### **NURS 300 CNA/Acute Care Aide**

#### **12.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to CNA program.

Prerequisite: ENGL 101 - Freshman Composition: Exposition

The course details the roles and responsibilities of the certified nursing assistant in both long-term and acute care settings. It emphasizes the importance of professionalism, responsibility, and accountability. It introduces various health care professional careers. (Letter Grade Only)

### **NURS 310 Pharmacology**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the VN Program

The course covers basic pharmacologic principles including pharmacokinetics, pharmacodynamics, therapeutic effects, adverse effects, clinical uses, and contraindications. It introduces the nursing process and drug dosage calculations. Emphasis is on the role of the nurse in drug administration, prevention of drug interactions, assessment of therapeutic and adverse effects, and patient teaching across the lifespan. (Fall) (Letter Grade Only)

### **NURS 311 Medication Administration**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and successful completion of NURS 310

This course focuses on the administration of medications to adult, geriatric and pediatric patients that require medical, surgical or preventive intervention. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration and professionalism are integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 317 Fundamentals of Nursing**

#### **3.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and successful completion of NURS 310

This course provides an introduction to nursing and roles of the nurse in various care settings; as well as profession-related and patient care concepts. Emphasis is placed on the knowledge and skills needed to provide safe, quality care. The theoretical foundation for basic assessment and nursing skills is presented and the student is given an opportunity to demonstrate these skills

in a laboratory setting. An introduction to the nursing process provides the student with a beginning framework for decision making. (Spring) (Letter Grade Only)

### **NURS 318 Clinical Lab 1**

#### **8.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Corequisite: NURS 311 - Medication Administration ; and NURS 317 - Fundamentals of Nursing  
Limitations on Enrollment: Admittance to VN Program and successful completion of NURS 310

This course focuses on the care of the adult patients in long-term care, acute care, and outpatient settings who require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Spring) (Pass/No Pass)

### **NURS 320 Care of Older Adults**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to the VN program and/or successful completion of spring semester VN courses

This course focuses on the care of older adult patients with health issues that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Summer) (Letter Grade Only)

### **NURS 322 Maternal and Infant Health**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of the summer semester VN courses

This course focuses on the care of all phases of the maternity cycle including care of the obstetrical patient and newborn infant. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Fall) (Letter Grade Only)

### **NURS 323 Respiratory Conditions**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of NURS 310

This course focuses on the care of adult patients with respiratory conditions that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 327 GI and Urinary Conditions**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of spring semester VN courses

This course focuses on the care of adult patients with gastrointestinal (GI) or urinary conditions that require medical and/or surgical intervention. Concepts of patient-centered care,

informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Summer) (Letter Grade Only)

### **NURS 328 Clinical Lab 2**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of spring semester VN courses  
The course is a supervised clinical experience in various health care settings using intermediate vocational nursing skills. (Summer) (Pass/No Pass)

### **NURS 329 Endocrine and Reproductive Conditions**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Successful completion of NURS 310 and admission to VN Program  
This course focuses on the care of adult patients with endocrine and reproductive conditions that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, collaboration, and professionalism are integrated throughout the course. (Spring) (Letter Grade Only)

### **NURS 330 Care of Infants and Children**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of the summer semester VN courses  
This course focuses on the care of pediatric patients with health issues that require medical and/or surgical intervention. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Fall) (Letter Grade Only)

### **NURS 331 Cardiovascular Conditions**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of summer semester VN courses  
This course focuses on the care of adult patients with circulatory conditions that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Fall) (Letter Grade Only)

### **NURS 332 Neurosensory Conditions**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of summer semester VN courses  
This course focuses on the care of adult patients with neurological conditions that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Fall) (Letter Grade Only)

### **NURS 335 Skin and Musculoskeletal Conditions**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of spring semester VN courses  
This course focuses on the care of adult patients with skin and musculoskeletal conditions that require medical and/or surgical interventions. Concepts of patient-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Summer) (Letter Grade Only)

### **NURS 337 Professional Relationships**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of summer semester VN courses  
This course facilitates the transition of the student to the role of a licensed vocational nurse (LVN). Emphasis is placed on issues related to nursing and healthcare as well as skills necessary to provide care to multiple patients and assign tasks to other LVNs and unlicensed personnel. Concepts related to leadership and management are presented as well as career development options that enhance career mobility. Standards of practice and the importance of practicing according to state regulations and statutes are examined. (Fall) (Letter Grade Only)

### **NURS 338 Clinical Lab 3**

#### **8.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Admittance to VN Program and/or successful completion of summer semester VN courses  
This clinical course focuses on the care of adult, children, and obstetric patients in acute, long term, and outpatient settings who require medical and/or surgical interventions. Concepts of patient-centered/family-centered care, informatics, safety, evidence-based practice, quality, collaboration, and professionalism are integrated throughout the course. (Fall) (Pass/No Pass)

### **NURS 370 Intravenous Therapy**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Current California LVN license or concurrent enrollment in the third semester VN program.  
The course prepares the student for starting and superimposing intravenous fluids, blood, and blood products. Licensed vocational nurses that successfully complete the course will be issued a California Board of Vocational Nurse and Psychiatric Technician Examiners certificate of completion. (Letter Grade Only)

### **NURS 380 Licensed Vocational Nursing Skills Lab**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Repeatable: 2.00  
Corequisite: enrollment in the licensed vocational nursing program  
Open-entry laboratory course designed to provide students with the opportunity to refine and expand skills learned in the corequisite

program. Students may repeat the course as they progress through the program. (Fall, Spring) (Pass/No Pass)

### **NURS 416 Certified Home Health Aide**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: MA 305 - Body Systems and Disease

Limitations on Enrollment: Completion of course admission packet.

Prerequisite: NURS 400; or NURS 300 - CNA/Acute Care Aide ;

Proof of current CNA certificate

The course prepares the certified nurse assistant to expand skills and meet the home health aide eligibility requirements for State of California certification. (Summer) (Letter Grade Only)

### **NURS 420 Restorative Aide**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must provide documentation of being a current certified nursing assistant or proof of successful completion of NATAP testing.

Prepares the certified nursing assistant to assist the resident in maintaining or promoting independence in the areas of mobility and performing activities of daily living. Upon successful completion, the student will receive a certificate of completion and will be qualified to work as a restorative aide in a long-term facility under the guidance of a licensed physical or occupational therapist or a licensed nurse. 26 CEUs will be offered. (Summer) (Letter Grade Only)

### **NURS 422 EKG/Monitor Observer**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Completion of course admission packet.

Prepares the medical professional to function as a monitor observer in a clinical area where patients receive cardiac monitoring. Basic electrocardiograph patterns and cardiac arrhythmias are learned. (Letter Grade Only)

### **NURS 480 Certified Nursing Assistant Skills Lab**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: enrollment in the licensed vocational nursing program

Open-entry laboratory class designed to provide students with the opportunity to refine and expand skills learned in the corequisite program. Students may repeat the course as they progress through the program. (Fall, Spring) (Pass/No Pass)

## **Older Adults (Noncredit)**

### **OLDR 7000 Natural History: Central Coast**

#### **4.0 - 8.0 hours**

Acceptable for credit: N - Noncredit

This course, designed to promote socialization and cognitive acuity, presents an engaging review of the natural history and conservation issues related to the Central Coast of California. Discussion topics include (but are not limited to) plant communities,

floral components, geology, soil, climate, biology, archeology, and environmental concerns. (Spring) (Noncredit )

### **OLDR 7001A Topics for Older Adults**

#### **15.0 - 45.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to promote the socialization and mental stimulation through the presentation and discussion of international, national, and local events from a current and historical viewpoint. Topics include a range of literature, current world issues, historical events, and personal issues of interest as they relate to the student.

### **OLDR 7002 Great Literature**

#### **6.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This course is an intellectually and socially rewarding class in which outstanding short stories, essays, books, plays and poems are read and discussed. Through the method of shared inquiry, along with thought-provoking questions, students are offered exciting opportunities for self-discovery and personal growth.

### **OLDR 7005 Film Appreciation**

#### **4.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

This course is an examination of film as an art form, which emphasizes film appreciation, a study of the historical context, dramatic issues, artistic and technical objectives, and narrative genre. Students view films and critically analyze and discuss the genre in order to develop a broad appreciation, insight, and analytical understanding of visual media.

### **OLDR 7100 Sensory Awareness**

#### **32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

This sensory awareness class is designed to engage the five senses in order to sustain mental/cognitive acuity. Activities include discussions centered on current events and topics of interest. Music, storytelling, touch, aroma, and taste experiences provide focus and stimulation. (Fall, Spring, Summer) (Noncredit )

### **OLDR 7101A Crafts for Seniors**

#### **32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Learn to work with one or all of the following craft media in this survey of crafts class: clay, paper, fabric, and paint. Some classes have a materials fee.

### **OLDR 7102 Current Topics**

#### **32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to promote socialization and stimulate memory and cognition. Students explore a wide range of topics via discussions, guest speakers, and other techniques. Course discussion and activities draw upon current local, national, and/or world topics, and draws upon the participants' experiences and knowledge of current and historical events. (Fall, Spring) (Noncredit )

**OLDR 7104 Balance and Mobility****16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This class is designed for older adults identified as low-to-moderate risk for falls. Class activities target specific balance problems in a challenging, but safe training environment. This class is not intended to replace physical therapy.

**OLDR 7200A Int. Watercolor Painting****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Expand your knowledge of watercolor and aquamedia techniques, develop your personal painting style, and enhance creative thinking in this inspirational class. Demonstrations, challenging projects, and creative exercises build ability and confidence. Appropriate for all with a basic knowledge of watercolor.

**OLDR 7201A Jewelry, Sculpture & Repousse****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Develop your creative expression through mixed-media sculpture and pewter repousse, a mixed media with enamels and acrylics. Create two- and three-dimensional sculptures from wood, metal, clay, plaster, fabric, and paper. Explore design fundamentals including space, perspective, dimension, proportion, and balance.

**OLDR 7206A Tole Painting****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Students explore the history of tole painting, while gaining practical experience in the basic techniques of brush control, shading, use of color, and finishing. Additional course topics include fabric painting, folk art, and pen and ink methods, with an emphasis on artistic awareness, small-muscle dexterity, social interaction, and self-esteem.

**OLDR 7209A Botanical Illustration****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Explore drawing and/or watercolor and learn to create accurate renderings of plants, ranging from fruits and vegetables to weeds and wildflowers. Review examples of the classic scientific style in botanical illustration and the use of realistic plant images in contemporary, fine art. Exercises range from quick sketches to finished compositions. Beginners are welcome.

**OLDR 7211A The Joy of Drawing****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Drawing is the foundation of visual communication and can only be learned through practice. Students explore the use of charcoal, colored pencil, graphite, and ink to develop graphic fluency. Exercises help students give form and definition, convey volume, define planes, give movement and direction, and articulate emotion through drawing.

**OLDR 7212A Watercolor Painting****45.0 - 51.0 hours**

Acceptable for credit: N - Noncredit

This course is designed for developing and/or sustaining confidence in creative expression, as well as providing opportunities for creative/personal growth, community engagement, and lifelong learning. Beginning-to-advanced painters learn basic to advanced watercolor techniques while working on gross and fine motor skills, and memory recall. Course will also explore art history, color theory, design elements, color mixing, brush techniques, luminous transparent wash techniques, and simple elements of composition. (Noncredit )

**OLDR 7213A Painting in Oils and Acrylics****45.0 - 51.0 hours**

Acceptable for credit: N - Noncredit

Learn how to paint your favorite subjects. This class covers the basics of oil and acrylics, from the beginning drawing to the finished painting. Beginning through experienced painters who wish to work with oils and acrylic media are welcome. (Noncredit )

**Parenting (Noncredit)****PARN 7002 Topics of Parenting****8.0 - 9.0 hours**

Acceptable for credit: N - Noncredit

This lab course covers a wide range of parent education topics including hands-on experience on good parenting skills. This course is mandatory for all parents whose children are enrolled in Allan Hancock College's Campus Children's Center. (Fall, Spring) (Noncredit )

**PARN 7010 Strengthening Families****8.0 - 10.0 hours**

Acceptable for credit: N - Noncredit

This course presents the knowledge and skills necessary to successfully guide, discipline, and communicate with children. Students learn parenting styles and healthy living skills to meet current challenges facing families. (Fall, Spring) (Noncredit )

**PARN 7011 Mommy/Daddy & Me: Toddlers****16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Students in this course participate in discussions facilitated by an experienced parent educator and covers important topics such as emerging independence, sleep issues, nutrition, and self-esteem. Parents learn play activities featuring easel painting, art experiences, outdoor play, music, and exploration of new environments. (Fall, Spring, Summer) (Noncredit )

**Personal Development****PD 100 Personal and Career Exploration****3.0 units**

Acceptable for credit: Transfer to UC, CSU

Provides in-depth career direction with an intensive exploration of one's own values, interests, abilities, and an intensive career information search. Instruction includes self-paced materials,



lecture, small group discussion, interviews, and input from various campus departments. (Letter Grade or Pass/No Pass)

### **PD 101 Success in College**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Assists students in considering individual development with the goal of increasing knowledge of self and others within the college. Topics include self-knowledge and assessment, learning to learn, and making the best use of college resources. This course is not open to students who are enrolled in or have received credit for Learning Skills 101 or Personal Development 105. (Letter Grade or Pass/No Pass)

### **PD 102 Human Relationships**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An exploration of the dynamics of human relationships with an emphasis on a positive view of human connections, and how individuals relate to one another. Counseling and psychology theories integrated with communication skills are combined to better understand oneself within relationships and how to create positive relationships. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PD 110 College Success Seminar**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

Designed specifically for first-time students to introduce them to the college and its resources. Develops critical awareness of the student's role in the college culture focusing on strategies for achieving academic success. Teaches students to deal effectively with the myriad of academic, personal, and professional choices through interactive learning and practical application. Students will transfer skills and abilities to other courses thereby improving student success. (Pass/No Pass)

### **PD 115 Career Planning**

#### **1.0 unit**

Acceptable for credit: Transfer CSU

A career planning course designed to assist students in discovering their basic aptitudes, skills, interests, personality, and values. Uses standardized vocational preference inventories, self-directed search, and career resource research to develop a career and educational plan. (F,S) (Pass/No Pass)

## **Physical Education**

### **PE 100 Introduction to Kinesiology**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the discipline of kinesiology including the importance, philosophy, history, and biomechanics of human movement. Students will be exposed to various professional opportunities available to those pursuing an education in the field of exercise science. Students will also examine ways of understanding and studying human movement and its role and significance in daily life. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 106 Sports Officiating**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the basic principles of sports officiating with emphasis on the following sports: baseball/softball, basketball, football, soccer and volleyball. Includes application of contest rules, officiating mechanics, officiating styles, and professional responsibilities applicable to each sport covered. Students will learn about ethical considerations, effective communication, decision making skills, and conflict resolution, as they relate to professional officiating. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PE 120 Beginning & Intermediate Swimming**

#### **1.0 unit**

Acceptable for credit: Transfer to UC, CSU

An introduction to swimming, mastering the skills of the crawl stroke and elementary backstroke, and learning personal safety skills such as floating, treading water, and elementary forms of rescue. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 121 Swim Fitness Lab**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Advisories: PE 120 - Beginning & Intermediate Swimming

Designed to permit students to develop skills and improve and maintain overall physical fitness and cardiovascular conditioning in a low impact aquatic environment with flexible scheduling. Students may not be concurrently enrolled in PE 122. (Fall, Spring, Summer) (Pass/No Pass)

### **PE 122 Swim Fitness Lab**

#### **0.5 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Advisories: PE 120 - Beginning & Intermediate Swimming

Designed to permit students to develop skills and improve and maintain overall physical fitness and cardiovascular conditioning in a low impact aquatic environment with flexible scheduling. Students may not be concurrently enrolled in PE 121. (Fall, Spring, Summer) (Pass/No Pass)

### **PE 123 Aerobic Swim**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Advisories: PE 120 - Beginning & Intermediate Swimming

This course familiarizes the student with the concepts of aerobic fitness, aerobic fitness evaluation, and swimming as an alternative aerobic conditioning program. Students will tailor an aerobic swim fitness program to meet their own needs with the goal of improving and maintaining their level of aerobic fitness. Students will learn how to take and use their heart rate as an indicator for evaluating and monitoring their level of aerobic fitness and their progress towards aerobic fitness. Specifically students will learn how to take and evaluate the three important stages of heart rate, resting heart rate (RHR), target or training heart rate (THR), and recovery heart rate. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 128 Sport Psychology****3.0 units**

Acceptable for credit: Transfer CSU

Designed to provide mental and psychological considerations as they relate to sport and exercise. Students will learn how various subjects impact the participation in and execution of sport in both individual and team settings. Subjects such as leadership and communication, goal setting, anxiety, violence, team cohesion, burnout, and drug abuse will be discussed. (Fall, Spring) (Letter Grade or Pass/No Pass)

**PE 129 First Aid-CPR: Educator/Coach****1.0 unit**

Acceptable for credit: Transfer CSU

Repeatable: 100.00

This course is designed to allow students who are considering a kinesiology based profession, to develop the necessary knowledge and skills to successfully respond in various first aid and safety circumstances which may arise in their distinctive work environment as a professional educator/coach. Topics include: injury prevention; sudden illness; heat/cold related injuries; responding to acute asthmatic emergencies; soft tissue, and muscular, bone and joint injuries; responding to unconscious or choking persons; and cardiac emergencies. At the end of the course, students will be American Red Cross "lay responder" certified in first aid, AED, and adult, child, and infant CPR. Students will not be certified at the "professional rescuer" level. Students must obtain and review the required textbook prior to the first class meeting. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 130 Self Defense****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Affords all students the opportunity to become proficient in basic self-defense skills. Instruction in both physical and mental skills regarding methods and techniques for providing personal safety and defending oneself. Defensive and offensive tactics will be presented in the areas of movement, leverage, striking, and the utilization of various objects. Does not require any prior martial arts training. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 132 Cardio Kickboxing****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Emphasizes aerobic and strength conditioning through martial art movements. An aerobic exercise program that improves endurance, strength, and flexibility by using kickboxing movements. It involves a variety of punching and kicking movements focusing in the mirror and then on the workout bag. The high intensity, low impact activity accommodates most students at all fitness levels. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 133 Beginning Yoga Fitness****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Fundamentals of physical yoga at a beginning level, which focus on breathing, posture, and the development of the connection between the mind and muscles of the body. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 134 Martial Arts Techniques****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Introduction to basic techniques from over 10 different martial arts systems. Discussion of characteristics of each style, as well as physical and mental attributes of those likely to excel within each system. This non-sparring exercise program will improve reflexes, coordination, strength, flexibility, balance, and muscle tone. Techniques will be practiced in the mirror and on work-out bags. Designed to accommodate most students of various fitness levels. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

**PE 140 Physical Fitness Laboratory****1.0 unit**

Acceptable for credit: Transfer CSU

Designed to permit students to build muscle mass and strength, as well as develop overall physical fitness and cardiovascular conditioning. Provides students with the opportunity to utilize sophisticated conditioning equipment to accomplish their individual conditioning goals. Three hours per week with flexible hours. Students may not be concurrently enrolled in PE 141. (Fall, Spring, Summer) (Pass/No Pass)

**PE 141 Physical Fitness Laboratory****0.5 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Designed to permit students to build muscle mass and strength, as well as develop overall physical fitness and cardiovascular conditioning. Provides students with the opportunity to utilize sophisticated conditioning equipment to accomplish their individualized conditioning goals. Two hours per week with flexible hours. Students may not be concurrently enrolled in PE 140. (Fall, Spring, Summer) (Pass/No Pass)

**PE 142 Low Impact Conditioning Exercises****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Provides ways for students to improve fitness level by using principles of cardiovascular conditioning, flexibility, strength, coordination, and endurance training. Special attention is given to proper motion, but not required for participation. (Fall, Spring) (Letter Grade or Pass/No Pass)

**PE 143 Step Aerobics****1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

An aerobic exercise program that improves aerobic conditioning, flexibility, muscular strength and endurance by utilizing a platform for stepping up and down. Includes a variety of stepping routines and strength training exercises in controlled rhythmic patterns set

to music. The complete high intensity low impact balanced aerobic activity accommodates students at all fitness levels. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 145 Intercollegiate Conditioning**

#### **0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Designed to permit students to utilize an individualized strength and body building program using a combination of exercise machines and free weights in preparation for participation in intercollegiate competition. Students may not be concurrently enrolled in PE 140 or PE 141. Students will additionally engage in a variety of activities designed to enhance skill development and performance capabilities required for successful participation in future competitive intercollegiate sport circumstances and events. Students may repeat this course if they are CCCAA (California Community College Athletic Association) eligible. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PE 146 Strength and Flexibility**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Designed to improve body alignment, flexibility and tone, and to strengthen problem areas, i.e. back, knees, and abdominals, through the use of various exercise equipment and a variety of stretching and strength exercises. Students learn a basic strength-fitness exercise program. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 149 Cooperative Work Experience: Occupational**

#### **1.0 - 8.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: To participate in Cooperative Work Experience: (1) students must be working at a job within their major, (2) students must be able to become involved in new or expanded responsibilities on the job, (3) the employer must be willing to cooperate with the college in the supervision and evaluation of the student and (4) the student must attend all coordination/consultation meetings in addition to other work and class responsibilities. NUMBER OF TIMES COURSE CAN BE REPEATED: Students enrolled in CWE 149 may earn up to 8 units of credit per semester not to exceed 16 units in total. Any units earned in any other Cooperative Work Experience course will be included in the 16 unit maximum. CWE Units Unpaid Placement: 1 unit 60 hours 2 units 120 hours 3 units 180 hours 4 units 240 hours 5 units 300 hours 6 units 360 hours 7 units 420 hours 8 units 480 hours CWE Units Paid Placement: 1 unit 75 hours 2 units 150 hours 3 units 225 hours 4 units 300 hours 5 units 375 hours 6 units 450 hours 7 units 525 hours 8 units 600 hours

Supervised employment extending classroom-based learning to an on-the-job learning environment relating to the student's career and educational goals. In addition, these work experiences improve the student's basic work skills and professional competencies by creating career awareness, improving work habits, and fostering positive workplace attitudes. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 154 Jogging/Walking**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

In this course, students improve cardiovascular and muscular physical fitness levels and flexibility by learning the concepts and principles and applying the techniques associated with walking and jogging. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 156 Beginning Golf**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Introduction to golf, elementary golf skills, the values and challenge of the game. Emphasis on developing a sound, repeating one-piece golf swing. Range practice. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 160 Tennis**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Designed to equip the student with the necessary knowledge and skills to become proficient enough to enjoy the game of tennis and participate at the beginning level. Fundamental strokes and strategy will be stressed. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 164 Soccer**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

Designed to prepare students to learn soccer and the rules of soccer. Fundamentals, strategy, and techniques will be stressed. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 167 Basketball**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

This course stresses the development of the fundamental skills, basic team offense and defense, and physical conditioning. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 170 Softball**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

This course is designed to provide the fundamental skills and knowledge necessary to successfully participate in the game of softball. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PE 172 Volleyball**

#### **1.0 unit**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

This course is designed to give instruction and practice in the fundamental skills basic to successful performance in volleyball.

Rules and offensive and defensive formation will be included. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## **PE 189 Independent Projects**

### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate Academic Dean, or an instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and approved by the appropriate dean before the last day of enrollment. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Fall, Spring) (Letter Grade or Pass/No Pass)

## **PE 199 Adapted Wilderness Experience**

### **0.5 units**

Acceptable for credit: Transfer CSU

Designed to enable the disabled student the opportunity to enjoy and appreciate the wilderness and participate in wilderness activities. Trained assistants are available. (A) (Letter Grade Only)

## **Intercollegiate Athletics**

### **PEIA 100 Intercollegiate Football**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitation on repeats if CCCAA eligible. Designed to give students extensive practice and instruction in football to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall) (Letter Grade or Pass/No Pass)

### **PEIA 105 Intercollegiate Soccer, Women**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in soccer to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall) (Letter Grade or Pass/No Pass)

### **PEIA 110 Intercollegiate Soccer, Men**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in soccer to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall) (Letter Grade or Pass/No Pass)

### **PEIA 120 Intercollegiate Cross-Country**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in cross-country to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall) (Letter Grade or Pass/No Pass)

### **PEIA 125 Intercollegiate Volleyball**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in volleyball to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall) (Letter Grade or Pass/No Pass)

### **PEIA 130 Intercollegiate Basketball, Men**

#### **1.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in basketball to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PEIA 135 Intercollegiate Basketball, Women**

#### **1.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in basketball to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PEIA 140 Intercollegiate Baseball**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in baseball to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 145 Intercollegiate Softball**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to prepare students to compete in intercollegiate competition. Fundamentals of softball and advanced technique and strategy will be stressed as in any intercollegiate sport. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 150 Intercollegiate Track, Men**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in track to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 155 Intercollegiate Track, Women**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Designed to give students extensive practice and instruction in track to prepare them for intercollegiate competition. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 170 Intercollegiate Golf, Men**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitations on repeats if CCCAA eligible.

Extensive practice and instruction in course management skills and techniques that prepares the student for intercollegiate golf competition. Competition includes individual and team matches, tournaments and conference tournaments. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 185 Intercollegiate Swimming, Women**

**3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitation on repeats if CCCAA eligible.

Designed to prepare students to compete in intercollegiate competition. Fundamentals of swimming and advanced technique and strategy will be stressed as in any intercollegiate sport. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA (California Community College Athletic Association) eligible. (Spring) (Letter Grade or Pass/No Pass)

### **PEIA 188 Intercollegiate Water Polo, Women**

**3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitation on repeats if CCCAA eligible.

Designed to prepare students to compete in intercollegiate competition. Fundamentals of water polo and advanced technique and strategy will be stressed as in any intercollegiate sport. Attendance at intercollegiate events associated with this course will be required of students. Students may repeat this course if they are CCCAA (California Community College Athletic Association) eligible. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PEIA 195 Intercollegiate Conditioning**

**0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Repeatable: 12.00

Limitations on Enrollment: Instructor recommendation and CCCAA (California Community College Athletic Association) eligibility required, with no limitation on repeats if CCCAA eligible. Designed to permit students to utilize an individualized strength and body-building program using a combination of exercise machines and free weights in preparation for participation in intercollegiate competition. Students may not be concurrently enrolled in PE 140 or PE 141. Students will additionally engage in a variety of activities designed to enhance skill development and performance capabilities required for successful participation in future competitive intercollegiate sport circumstances and events. Students may repeat this course if they are CCCAA (California Community College Athletic Association) eligible. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

## Philosophy

### PHIL 101 Survey of Philosophy

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PHIL 100

An overview of the central issues and movements in philosophy. Topics to be selected from such areas as ethics, political philosophy, metaphysics (the study of reality), epistemology (the study of knowledge), logic, aesthetics, phenomenology and existentialism. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### PHIL 102 Existence and Reality

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An introduction to the problems of metaphysics (the study of reality and existence) and epistemology (the study of knowledge). Possible topics include the existence of God, freedom versus determinism, the mind/body problem, problems of knowledge, appearance versus reality, and existentialism. (Letter Grade or Pass/No Pass)

### PHIL 105 Ethics

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PHIL 120

An introduction into the nature of ethics examining ethical issues, traditional and nontraditional ethical systems, and various contemporary ethical problems such as abortion and euthanasia. (Spring, Summer) (Letter Grade or Pass/No Pass)

### PHIL 112 Logic

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PHIL 110

An introduction to the methods of principles of logic exploring inductive logic, deductive logic, and critical thinking including applications to philosophy, the exact sciences, the social sciences, and to reasoning in everyday life. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### PHIL 114 Critical Thinking

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ENGL 101 - Freshman Composition: Exposition  
Introduction to critical thinking and critical writing. The student will learn techniques of practical reasoning and argumentation, with emphasis on application of these techniques in the writing of a sequence of argumentative essays. Topics include: critical reading, argument analysis, recognizing propaganda and stereotypes, clarifying ambiguity, meaning and definition, evaluation evidence, logical correctness versus factual correctness, and common mistakes in reasoning (formal and informal fallacies). Critical writing strategies are emphasized. Sample arguments for analysis are drawn from readings in philosophy and from culturally diverse sources in other fields. This course has been designed to fulfill the IGETC Critical Thinking/English Composition requirement. (Fall, Spring) (Letter Grade or Pass/No Pass)

### PHIL 121 Religions of the Modern World

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An introduction to the religious philosophy, beliefs and practices of six major world religions, including brief historical and cultural background on each. Hinduism, Buddhism, Taoism, Judaism, Islam, and Christianity will be studied. (Fall, Spring) (Letter Grade or Pass/No Pass)

### PHIL 122 Exploring Religious Issues

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An exploration of the basic issues involved in the philosophy of religion. Topics covered include the existence of God, the nature of God, the nature of evil, life after death, and the methodology required to find answers to these issues. A variety of approaches and viewpoints will be considered. (F1) (Letter Grade or Pass/No Pass)

### PHIL 189 Independent Projects

#### 0.0 units

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)



## Physical Sciences

### PHSC 111 Matter, Energy and Molecules

#### 4.0 units

Acceptable for credit: Transfer CSU

C-ID Course Number: CHEM 140

Advisories: ENGL 514 - Writing Skills 4 or eligibility for ENGL 101

Prerequisite: MATH 311 - Algebra 1

Introduction to the basic principles of physical science and applications of these principles in everyday life. Topics include, but are not limited to, the following: scientific method, measurements, force and motion, work and energy, heat, waves, fluids, electricity, atomic physics, matter, compounds, molecules, chemical reactions, and ions. (Letter Grade or Pass/No Pass)

### PHSC 112 Earth and the Universe

#### 4.0 units

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

C-ID Course Number: GEOL 121

Advisories: Eligibility for MATH 311 and ENGL 101

Introduction to the basic principles of astronomy and earth sciences and applications of these principles to everyday life. Topics include the solar system, stars, galaxies, and cosmology, structure and formation of the earth, earth quakes, volcanoes, plate tectonics, the atmosphere, the ocean, and weather. (Letter Grade or Pass/No Pass)

### PHSC 199A Colorado Plateau

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

Advisories: Concurrent enrollment in college-level life or physical science course.

Limitations on Enrollment: Completion of course application and procedures for enrollment.

Intensive field study experience in introducing students to the Earth, Physical, and Space Sciences of the Colorado Plateau Physiographic Region. (Pass/No Pass)

## Photography

### PHTO 101 History of Photography

#### 3.0 units

Acceptable for credit: Transfer CSU

This course is a historical survey of the evolving nature of photography from the 1800's to the present. This course examines the role and function of photography and its cultural history, including its relationship to the fine arts, sciences, social sciences, fashion, and mass media. Emphasizes the aesthetic and historical influences on photography, as well as the medium of photography's effects upon society and culture and as a form of visual communication. (Fall, Spring) (Letter Grade or Pass/No Pass)

### PHTO 110 Basic Photography

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

<p>Designed to introduce the student to the fundamentals of black and white photography as a means of personal expression

or as a tool for professional growth. Included will be units on cameras, light, exposure, film and print development, enlarging, print finishing and criticism. Adjustable 35 mm camera suggested, school cameras available. </p> (Fall, Spring) (Letter Grade or Pass/No Pass)

### PHTO 120 Materials and Processes

#### 3.0 units

Acceptable for credit: Transfer CSU

Prerequisite: PHTO 110 - Basic Photography ; or PHTO 170 - Digital Photography

A course exploring alternative photographic materials and processes including pinhole photography, cyanotype, Van Dyke, gum printing, toning, making digital and traditional enlarged negatives and making photographic books. A course for students with a background in photography or digital photography. Students are responsible for providing cameras, paper, mat board and other miscellaneous supplies necessary to the completion of work. Process chemicals are supplied. (Letter Grade or Pass/No Pass)

### PHTO 130 Advanced Black and White Photography

#### 3.0 units

Acceptable for credit: Transfer CSU

Prerequisite: PHTO 110 - Basic Photography

A course investigating theories and working techniques in black and white photography using analog and hybrid digital systems to produce negatives and prints. Exploration of advanced techniques for controlling the printing process. Emphasizes the utilization of those techniques in pursuit of a personal visual style. Students are required to provide their own cameras, film and paper. (Letter Grade or Pass/No Pass)

### PHTO 140 Introduction to Color Photography

#### 3.0 units

Acceptable for credit: Transfer CSU

Prerequisite: PHTO 110 - Basic Photography ; or PHTO 170 - Digital Photography

A course designed to introduce the students to the fundamentals of color photography, including the practical application of color theory to problems involving the use of color negative film and color prints as a means of personal expression along with scanning of film for digital output. Includes an examination of contemporary trends in color imagery. Students are required to supply their own cameras, film and paper. (Letter Grade or Pass/No Pass)

### PHTO 150 Introduction to Commercial Photography

#### 2.0 units

Acceptable for credit: Transfer CSU

Prerequisite: PHTO 110 - Basic Photography

A combined lab and lecture course that provides the student with an overview of photography as a career. Introduces professional photographic equipment and techniques in actual studio situations. Students will produce photographs of architecture, portraits, and advertising subjects as they would for a commercial client. 1 hour per week lecture, 2 hours per week lab. Repeatable 1 (one) time. Adjustable 35 mm camera suggested, school cameras available. (Letter Grade or Pass/No Pass)

**PHTO 151 Portrait Photography****2.0 units**

Acceptable for credit: Transfer CSU

An introductory lecture/lab course examining the styles, considerations, and techniques of photographic portraiture, including studio, headshots, environmental, and fashion photography. Introduces lighting and equipment specific to photographic portraiture. Requires an adjustable camera with manual exposure mode. (Fall) (Letter Grade or Pass/No Pass)

**PHTO 170 Digital Photography****3.0 units**

Acceptable for credit: Transfer CSU

An introductory course on the tools of digital photography including cameras, scanners, printers and Adobe Lightroom software. Topics include image capture, enhance enhancement and presentation including ink jet prints and digital slideshows. For this course Mac skills are useful, but not essential. (Letter Grade or Pass/No Pass)

**PHTO 179A Intro to View Camera****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to the equipment and techniques of large format photography including producing negatives and prints. The student will work with view cameras in the studio and on location to create a variety of image styles. (S1) (Letter Grade or Pass/No Pass)

**PHTO 189 Independent Projects****1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

**PHTO 199A Photojournalism****2.0 units**

Acceptable for credit:

Advisories: PHTO 110 - Basic Photography

Designed to give a working knowledge of the equipment, techniques, markets and strategies necessary for those who desire to pursue a career in photography for publication. (Letter Grade or Pass/No Pass)

**PHTO 380 Black And White Photo Lab 1****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: PHTO 110 - Basic Photography ; or PHTO 120 - Materials and Processes ; or PHTO 130 - Advanced Black and White Photography ; or PHTO 150 - Introduction to Commercial Photography ; or any 179, 189, or 199 as related to black and white photo process only.

Limitations on Enrollment: Students may not be concurrently enrolled in PHTO 380 and PHTO 381

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in the corequisite class. (Pass/No Pass)

**PHTO 381 Black And White Photo Lab 2****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: PHTO 110 - Basic Photography ; or PHTO 120 - Materials and Processes ; or PHTO 130 - Advanced Black and White Photography ; or PHTO 150 - Introduction to Commercial Photography ; or any 179, 189, or 199 as related to black and white photo process only.

Limitations on Enrollment: Students may not be concurrently enrolled in PHTO 380 and PHTO 381.

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in corequisite class. Students may not be concurrently enrolled in PHTO 380 and 381. Corequisites: PHTO 110 or 120 or 130 or 150 or any 179, 189 or 199 as related to black and white photo process only. (Fall, Spring) (Pass/No Pass)

**PHTO 382 Color Photo Lab 1****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: PHTO 140 - Introduction to Color Photography ; or any 179, 189 or 199, as related to color photo process only.

Limitations on Enrollment: Students may not be concurrently enrolled in PHTO 382 and PHTO 383

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in corequisite class. (Pass/No Pass)

**PHTO 383 Color Photo Lab 2****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 15.00

Corequisite: PHTO 140 - Introduction to Color Photography ; or any 179, 189 or 199 as related to color photo processes only.

Limitations on Enrollment: Students may not be concurrently enrolled in PHTO 382 and PHTO 383

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in corequisite class. Students may not be concurrently enrolled in PHTO 382 and PHTO 383. Corequisite: PHTO 140 or any 179, 189 or 199 as related to color photo processes only (Fall, Spring) (Pass/No Pass)

**PHTO 384 Digital Photo Lab 1****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: PHTO 170 - Digital Photography ; or any 179, 189, or 199 as related to digital photo processes only.

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in corequisite class. (Pass/No Pass)

### **PHTO 385 Digital Photo Lab 2**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Corequisite: PHTO 170 - Digital Photography ; or any 179, 189, or 199 as related to digital photo process only.

Limitations on Enrollment: Students may not be concurrently enrolled in PHTO 384 and PHTO 385

Open entry laboratory class designed to provide students with the opportunity to refine and expand techniques learned in corequisite class. (Pass/No Pass)

### **PHTO 7200 Digital Photos & the Computer**

**8.0 - 12.0 hours**

Acceptable for credit: N - Noncredit

Unsure of how and where to store your digital photos? This course is a brief introduction to how to upload, manage, and store digital photos on a computer. Students are required to bring to class a digital camera or cellphone and accompanying USB cable for their specific model camera and/or a card reader. (Noncredit )

### **PHTO 7205 Photography for Online Sales**

**8.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

A photography course designed to introduce students to small product photography techniques useful for posting advertisements on eBay, Craigslist, or other online sites. Topics to be covered are camera settings, using a tripod, basic lighting techniques, selecting backgrounds, subject placement, and editing and prepping images for posting online. (Noncredit )

### **PHTO 7206 Food Photography**

**8.0 hours**

Acceptable for credit: N - Noncredit

A photography course designed to introduce students to the basic approach for photographing food. Topics include using natural light for photography of food, controlling focus, photography equipment and supplies used in food photography, and useful software. Students are required to have access to a digital camera or cellphone that has controls to manipulate exposure, shutter speed, ISO and focus, as well as the ability to download images to a classroom computer (Noncredit )

## **Physics**

### **PHYS 100 Concepts In Physics**

**3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: MATH 311 - Algebra 1 ; ENGL 101 - Freshman

Composition: Exposition ; or ENGL 514 - Writing Skills 4

An overview of the major areas of physics. Emphasis is on concepts, applications, and the consequences for modern life. An historical perspective on the development of physical theory and

its impact on civilization is explored. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PHYS 110 Introductory Physics**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: MATH 121 - Trigonometry ; or MATH 141 - Precalculus

An introduction to physics with emphasis on units, vectors and the definitions of physical variables. Tools and strategies necessary to be successful in PHYS 161 are covered. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **PHYS 141 General Physics 1**

**4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: PHYS 105

Prerequisite: MATH 141 - Precalculus ; or completion of or concurrent enrollment in MATH 121

The initial semester of a two-semester introduction to trig-based physics. Emphasizes the origin, nature, and application of fundamental concepts and principles. Required for most life-science and engineering-technology majors. Discusses motion, mechanics of particles and systems of particles, rigid, elastic and fluid systems, vibrations, wave motion, and sound. (Fall) (Letter Grade or Pass/No Pass)

### **PHYS 142 General Physics 2**

**4.0 units**

Acceptable for credit: \*Transfer to CSU, limited to UC/see counselor

C-ID Course Number: PHYS 110

Prerequisite: PHYS 141 - General Physics 1

A continuation of PHYS 141. Discusses heat, thermodynamics, electricity, magnetism, geometric and physical optics, atomic and nuclear physics. (Spring) (Letter Grade or Pass/No Pass)

### **PHYS 161 Engineering Physics 1**

**4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: PHYS 205

Prerequisite: PHYS 110 - Introductory Physics ; and MATH 182 - Calculus 2 which may be taken concurrently

The initial semester of a three-semester course in calculus-based physics which emphasizes the origin, nature and application of fundamental concepts and principles. Required for most baccalaureate majors in the physical sciences, engineering and mathematics. Emphasizes mechanics, including measurement, linear and planar motion, statics and dynamics of particles and systems of particles, rigid, elastic and fluid systems. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PHYS 162 Engineering Physics 2**

**4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: PHYS 215

Prerequisite: PHYS 161 - Engineering Physics 1 ; and MATH 182 - Calculus 2

A continuation of PHYS 161 which discusses temperature, heat, thermodynamics, simple harmonic and wave motion, sound, geometric and physical behavior of light, as well as topics in modern physics, which may include the special theory of relativity, and the quantum theory of atomic and nuclear systems. (Fall) (Letter Grade or Pass/No Pass)

### **PHYS 163 Engineering Physics 3**

#### **4.0 units**

Acceptable for credit: Transfer CSU

C-ID Course Number: PHYS 210

Advisories: Completion of, or concurrent enrollment in MATH 183

Prerequisite: PHYS 161 - Engineering Physics 1 ; and MATH 182 - Calculus 2

A continuation of PHYS 161 which discusses electrostatic forces, fields and potentials, steady electric currents and circuits, magnetic forces and fields, induced electric and magnetic fields, electric and magnetic properties of continuous media, reactive circuits, and electromagnetic waves. (Fall) (Letter Grade or Pass/No Pass)

### **PHYS 189 Independent Projects**

#### **0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

## **Paralegal**

### **PLGL 101 Intro to Paralegal Studies**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: eligibility for ENGL 514

Acquire the basic knowledge needed to begin your career as a paralegal. This course provides an in-depth overview of the legal system with special emphasis on the duties and responsibilities of a paralegal. (Letter Grade Only)

### **PLGL 102 Criminal Law & Procedure**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Introduction to criminal law and procedure for the paralegal. This course includes crimes against persons, habitation, property, order, justice, and morals. Defenses to criminal activity, search and seizure, confessions, pretrial, trial, and sentencing are also covered (Letter Grade Only)

### **PLGL 103 Civil Litigation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Introduction to civil litigation for the paralegal. This course is a survey of litigation, from the initial client interview to post-trial appeals. Complaint drafting, filing, service motions, answers, and discovery are covered. Settlement and trial are also included. (Letter Grade Only)

### **PLGL 104 Legal Research & Writing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

This course covers the sources and methods of legal research as related to cases, statutes, and secondary materials. Students will engage in objective legal writing based upon their research. (Letter Grade Only)

### **PLGL 105 Legal Analysis & Writing**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Designed to expose paralegal students to written advocacy and discovery requests. Emphasizes persuasive writing techniques, writing for a purpose, and discovery mechanics. Students will complete substantial writing assignments. (Letter Grade Only)

### **PLGL 106 Case Management**

#### **3.0 units**

Acceptable for credit: Transfer CSU

This course is designed to help students develop the conceptual and technical skills necessary to manage cases in a law office environment. The course includes interaction with case management software, databases, and word processing. (Letter Grade Only)

### **PLGL 107 Ethics for Paralegals**

#### **1.0 unit**

Acceptable for credit:

Advisories: eligibility for ENGL 514

Ethics are the standards that regulate the integrity of the legal profession. This course will improve your understanding of how paralegals are affected by ethical issues. (Letter Grade Only)

### **PLGL 108 Wills and Trusts**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: PLGL 101 - Intro to Paralegal Studies ; ENGL 514 - Writing Skills 4

This course introduces the law governing wills, trusts, and estate planning. It emphasizes practical applications for paralegals and exposes students to forms and procedures used in a law office. (Letter Grade Only)

**PLGL 109 Family Law****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: PLGL 101 - Intro to Paralegal Studies ; ENGL 101 -

Freshman Composition: Exposition

This course introduces the basic concepts of California Family Law and emphasizes the development of practical drafting skills used by paralegals. The course examines terminology, procedures, and legal document preparation involved in family law matters. (Letter Grade Only)

**PLGL 110 Intellectual Property Law****3.0 units**

Acceptable for credit: Non-Transferable

Advisories: PLGL 101 - Intro to Paralegal Studies

This course provides review of intellectual property law including patents, trademarks, and copyrights. Applied techniques for conducting patent searches, conducting research, and creating legal documents and forms will be emphasized. (Letter Grade Only)

**PLGL 111 Tort Law for Paralegals****3.0 units**

Acceptable for credit: Transfer CSU

Advisories: PLGL 101 - Intro to Paralegal Studies

Under tort law, an injured party can bring a civil lawsuit to seek compensation for a wrong done to the party or to the party's property. This course provides an overview of tort law, tort remedies, and drafting of basic documents. (Letter Grade Only)

**PLGL 112 Corporations, Partnership, LLC****3.0 units**

Acceptable for credit: Transfer CSU

An entrepreneur must make a choice as to which type of business to form and operate. Corporations, partnerships, limited liability companies, and sole proprietorships are among the different types of business organizations. This course reviews the law regarding the formation and operation of various forms of business organizations. It provides guidance on drafting original documents to form a business. (Letter Grade Only)

**Political Science****POLS 101 Introduction to Political Science****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: POLS 150

Advisories: Eligibility for ENGL 101

This is an introductory course examining a variety of approaches to the study of political science with particular emphasis on the American political system in comparative perspective. Topics discussed include nature of politics, comparative politics, selected political philosophers, principles of government, methods used by political scientists, and American government. This course satisfies part of the history and government requirements for the California State Colleges and Universities and Allan Hancock College. Students receiving credit must demonstrate satisfactory knowledge about national and state government. (Fall, Spring) (Letter Grade or Pass/No Pass)

**POLS 103 American Government****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: POLS 110

Advisories: Eligibility for ENG 101

A study of American government at the national, state, and local levels. Governmental principles, institutions, and their historical development are examined. This course satisfies part of the history and government requirements for the California State Colleges and Universities, University of California, Allan Hancock College, and many private colleges. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

**POLS 104 Introduction to International Relations****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: POLS 140

Advisories: ENGL 101 - Freshman Composition: Exposition ; and POLS 103 - American Government

A study of the forces and conditions involved in the actions, interactions and relations of nations and organizations within the international system. Emphasis is placed on the tools of analysis for understanding and predicting behavior on the international stage. (Spring) (Letter Grade or Pass/No Pass)

**POLS 105 Comparative Politics****3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: POLS 130

Advisories: ENGL 101 - Freshman Composition: Exposition ; and POLS 103 - American Government

This course is an introduction to the comparative analysis of contemporary political systems and their environments with primary attention given to Japan, China, and India although other countries and regions are included. The survey includes current political institutions, citizen participation, political problems, politics, and policies within these systems. Emphasis is given to Japan, China, and India in order to provide a comparative range of contrasts among an advanced democratic society (Japan), a Communist system (China), and to an important emerging world system (India). (Fall, Spring) (Letter Grade or Pass/No Pass)

**POLS 106 California Government and Politics****1.0 unit**

Acceptable for credit: Transfer CSU

Advisories: ENGL 514 - Writing Skills 4

Introduction to the structure and function of California state government. Satisfies California state and local government requirement for students who have taken Federal, State, and Local Government without a California component or who receive Advanced Placement credit for American Government. (Letter Grade or Pass/No Pass)

**POLS 189 Independent Projects-Honors****2.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: program application

Honors courses designed to be an enriching experience associated with a specific general education course. The course



material will either be a more in depth coverage of the material in the GE course, or will be more advanced material related to the course topics. (Letter Grade or Pass/No Pass)

## **POLS 199A Special Topics in Political Science**

### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 514 - Writing Skills 4 or eligibility for ENGL 101  
This course will examine the campaigns, issues, electoral process and candidates for the United States Presidential election. (Letter Grade or Pass/No Pass)

## **Professional Development**

### **PROD 301 Introduction to Life and Career Planning**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Introduces students to a decision-making process that will help them envision and plan for a future career that is productive, achievable, and stimulating. This course culminates with the development of a 10 year career/education plan used for advisory and academic purposes. This personalized 10-year plan provides students with the focus and intrinsic motivation to succeed in high school, college, at work, and in life. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Psychology**

### **PSY 101 General Psychology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PSY 110  
Advisories: ENGL 101 - Freshman Composition: Exposition  
An Introduction to the concepts, methods, and techniques of psychology. Including critical thinking, nervous system, perception, learning, motivation, emotion, stress, prejudice, human interactions and social influences, psychological disorders and therapy. (Letter Grade or Pass/No Pass)

### **PSY 105 Research Methods in Psychology**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
C-ID Course Number: PSY 200  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Prerequisite: MATH 123 - Elementary Statistics ; and PSY 101 - General Psychology  
This psychology based research methods class will cover the scientific method and various research approaches. Topics covered consist of sampling procedures, descriptive research including observational and correlational studies, experimental research including single and multi-factorial designs, quantitative and qualitative research methods, and ethics in psychological research. Students will apply APA methodology, read, evaluate and interpret research papers, and relate the scientific method to real world situations. Math 123 and Psy 101 are prerequisites for this class. English 101 is strongly advised for this class. (Letter Grade or Pass/No Pass)

### **PSY 106 Alcohol, Other Drugs, and Addiction**

#### **3.0 units**

Acceptable for credit: Transfer CSU  
<p>An overview of the role of alcohol and other drugs in society with emphasis on such topics as patterns of use.<br /> major categories of drugs, use/misuse/addiction, and approaches to prevention, intervention, and treatment. This<br /> course is not open to students who are enrolled in or have received credit for SOC 106 or HUSV 110.</p> (Fall, Spring) (Letter Grade Only)

### **PSY 112 Human Sexuality**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PSY 130  
Advisories: ENGL 101 - Freshman Composition: Exposition ; and PSY 101 - General Psychology  
This course is an introductory overview of the human sexual condition from the perspective of the diverse cultural, sociological and psychological aspects within the United States as well as other countries/cultural. Students will be encouraged to become aware of their own sexual values, attitudes and related behaviors as well as being tolerant of sexual expression/orientation different from their own experience. This course will emphasize social patterns of sexual behavior, sexuality lifespan, sexual norms and abnormalities as well as historical and current sexual problems. (Letter Grade or Pass/No Pass)

### **PSY 113 Theories Of Personality**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
Advisories: PSY 101 - General Psychology  
Prerequisite: ENGL 101 - Freshman Composition: Exposition  
This course covers major contemporary personality theories, compare and contrast diverse personality perspectives, and applies the theoretical principles to personality, psychological health, and psychological growth. (Letter Grade Only)

### **PSY 117 Child Psychology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
Advisories: ENGL 101 - Freshman Composition: Exposition ; and PSY 101 - General Psychology  
Examines the multicultural four stage development of the child from conception through adolescence: first two years, early childhood, middle childhood and adolescence. Each stage is approached from the biosocial development, cognitive development and psychosocial development perspectives. This course includes various psychological theories fundamental to the child's development, effects of heredity and the environment, parenting styles, attachment as well as issues related to prenatal development and birth. (Letter Grade or Pass/No Pass)

### **PSY 118 Human Development - Lifespan**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU  
C-ID Course Number: PSY 180  
Advisories: ENGL 101 - Freshman Composition: Exposition ; and PSY 101 - General Psychology



A balanced study of basic theories, research, and principles of physical, cognitive, and psychosocial development from conception to death is presented in an integrated manner; includes behavior, sexuality, nutrition, health, stress, environmental relationships, and implications of death and dying. (Fall) (Letter Grade or Pass/No Pass)

### **PSY 119 Abnormal Psychology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: PSY 120

Advisories: ENGL 101 - Freshman Composition: Exposition ;  
READ 110 - Introduction to Critical Reading ; and PSY 101 -  
General Psychology

This course introduces students to the scientific study of broadly defined psychopathology and atypical or abnormal behaviors. Students will be required to investigate these abnormal behaviors from a variety of perspectives including biological, psychological, and sociocultural approaches. Theory and research in abnormal behavior, as well as intervention and prevention strategies for psychological disorders are also introduced. (Spring) (Letter Grade or Pass/No Pass)

### **PSY 121 Social Psychology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: PSY 170

Prerequisite: PSY 101 - General Psychology ; and ENGL 101 -  
Freshman Composition: Exposition

An examination of how human behavior, attitudes, emotions, and thoughts are affected by the social situation. Topics include self-concept, intimate relationships, prejudice, obedience to authority, social influence, group-decision making, and multicultural relations. The use of social psychology in understanding diversity, sexism, and international conflicts is discussed. This course meets the Social Science GE requirement. (Letter Grade Only)

### **PSY 122 States of Consciousness**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An exploration of different states of consciousness, the means of attaining those states, their uses, misuses, and consequences. Topics include theories of consciousness, neural correlates of conscious experience, substance use disorders, sleep, dreams, hypnosis, dissociation and dissociation disorders, out-of-body states, near-death experiences, paranormal phenomena, meditation, non-Western methods of altering consciousness, and peak experiences. This course is not open to students who are enrolled in or who have received credit for HUSV 122 or ANTH 122. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PSY 127 Emotional Intelligence**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to Emotional Intelligence - a set of abilities and skills concerned with perceiving and managing emotional states in oneself and others. The neurobiology of emotions, how emotional states "hijack" people's behavior, and the application of emotional intelligence in a variety of personal and interpersonal

situations are emphasized. This course is not open to students who are enrolled in or who have received credit for HUSV 127. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PSY 128 Positive Psychology**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to the psychological study of the positive, adaptive, creative, and emotionally fulfilling elements of human behavior and the factors that contribute to people being happy, productive, and well adjusted. This course is not open to students who are enrolled in or who have received credit for Human Services 128. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PSY 132 Drugs, the Brain and the Body**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: HUSV 110 - Alcohol, Other Drugs, and Addiction ; or  
SOC 106 - Alcohol, Other Drugs, and Addiction ; or PSY 106 -  
Alcohol, Other Drugs, and Addiction

Provides an overview of the pharmacology of drugs in substance use disorders with emphasis on drug effects, how drug effects occur, how the body processes drugs, and health consequences of drug use and addiction. Physiologic aspects of addiction and tolerance are explored. Pharmacologic interventions are integrated with other substance use disorder treatment modalities. This course is not open to students who are enrolled in or have received credit for PSY 132. (Fall, Spring) (Letter Grade Only)

### **PSY 142 Co occurring Disorders Engagement**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Concepts, definitions, and features of co-occurring mental health and substance use disorders emphasizing attainment of empathic engagement with persons who have these disorders. This course is not open to students who are enrolled in or who have received credit for HUSV 142. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PSY 143 Co Occurring Disorders: Integrated Interventions**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: HUSV 142 - Co-occurring Disorders: Engagement ; or  
PSY 142 - Co occurring Disorders Engagement

A study of the intervention to benefit persons who have both psychiatric problems and alcohol or other drug use problems. This course is not open to students who are enrolled in or who have received credit for HUSV 143. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **PSY 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of

skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)

## Real Estate

### RE 100 Real Estate Principles

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 101

Basic laws and principles of California real estate and providing the background and terminology necessary for advanced study in specialized courses. Recommended for those preparing for the real estate salesperson license examination. (A) (Letter Grade Only)

### RE 302 Legal Aspects Of Real Estate

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

A study of California real estate law affecting property ownership and management; contract, real estate transfers, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward California educational requirements for broker's examination. (Pass/No Pass)

### RE 303 Real Estate Practices

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

A study of day-to-day operations in real estate sales and brokerage, including listing, prospecting, advertising, financing, sales techniques, escrow, and ethics. Applies towards California educational requirements for the broker's examination. (Fall, Spring) (Letter Grade or Pass/No Pass)

### RE 305 Real Estate Appraisal

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

An introduction to the appraisal process and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis is on residential and single-unit properties. (Fall, Spring) (Letter Grade or Pass/No Pass)

### RE 306 Property Management

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable

A comprehensive introduction to the property management profession for those seeking to enter the field, those already in the management field, and real estate practitioners seeking to broaden their education beyond listing and selling. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Reading

### READ 110 Introduction to Critical Reading

#### 3.0 units

Acceptable for credit: Transfer CSU

Advisories: READ 310 - Reading Skills and Strategies or ENGL 312 or ESL 310 ; or ENGL 513 - Writing Skills 3

Reading 110 is designed to equip students with effective reading skills for success in college courses. The emphasis is on improving reading comprehension and developing effective text analysis. Students learn to engage successfully a variety of texts to suit different reading purposes; to develop literal, inferential, and critical comprehension skills; and to analyze, synthesize, and evaluate texts from diverse sources. By practicing critical reading, students will also improve their writing skills. This class serves as a prerequisite for English 101. Lecture: 3 hours per week. Lab: 1 hour per week. This course is not open to students who are enrolled in or have received credit for ENGL 113 or ESL 110. (Fall, Spring) (Letter Grade or Pass/No Pass)

### READ 310 Reading Skills and Strategies

#### 3.0 units

Acceptable for credit: C - Credit - Not Degree Applicable

Reading 310 uses fiction and nonfiction texts to develop reading skills and strategies. The emphasis is on improving reading comprehension and efficiency and helping students become critical readers. This course is not open to students who are enrolled in or have received credit for ENGL 312 or ESL 310. (Fall, Spring) (Pass/No Pass)

### READ 510 Improving Reading Comprehension

#### 4.0 units

Acceptable for credit: C - Credit - Not Degree Applicable

Designed to introduce students to reading skills necessary for success in college. Emphasis is on improving reading comprehension and developing vocabulary. This course is not open to students who are enrolled in or have received credit for ENGL 510 or ESL 510. (Fall, Spring) (Pass/No Pass)

## Recreation

### REC 101 Intro to Recreation Management

#### 3.0 units

Acceptable for credit: Transfer to UC, CSU

An introduction to the principles of program management in recreation services in the areas of public and private domains, park, military and institutional settings as well as services to special populations. (Fall, Spring) (Letter Grade or Pass/No Pass)

### REC 103 Leadership in Recreation Services

#### 3.0 units

Acceptable for credit: Transfer CSU

An examination of the theories of leadership, leadership behaviors, principles and procedures of leadership and supervisory responsibilities as applied by the recreation leader. Techniques for working with small groups, large groups, and diverse populations. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **REC 105 Program Planning for Recreation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An exploration of recreational program planning including organization, implementation, and evaluation in both public and private settings. The interrelationship of needs and interests of people, physical settings, and activity content are covered. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **REC 107 Recreational Sports Programming**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An examination of the theories and practices of programming sports activities in a variety of recreational settings. Both individual and team sports will be studied. Emphasis will be placed on the planning of activities such as leagues, instructional programs, tournaments, and sports festivals. The class will study the development and operation of sports venues. Students will gain experience by planning actual events. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **REC 109 Outdoor & Adventure Recreation**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introduction to recreation activities offered in outdoor and adventure settings. Analysis of current practices and the agencies offering these activities. Examination of a variety of outdoor and adventure recreation resources and the ways to use the resources with minimal impact. Course will assist Recreation Management Majors in determining their area of emphasis when transferring. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Sociology**

### **SOC 101 Introduction to Sociology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SOC 110

A survey course in the science of society, which examines major sociological, processes and structures with particular attention to American society. Emphases are placed upon basic sociological concepts, social institutions, social issues, and the connections between individual consciousness and the broader socio-historical context. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 102 Social Problems**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SOC 115

A survey and analysis of ethnic groups and their relations in the United States including the stratification systems, prejudice and discrimination. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 104 Social Science Research Methods**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SOC 120

Prerequisite: SOC 101 - Introduction to Sociology

An introduction to sociological/psychological research methods. Presents the research process from topic selection through data collection for a variety of methods such as surveys, experiments, in-depth interviews, content analysis and comparative/historical research. This course is not open to students who are enrolled in or have received credit for Psychology 104. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 106 Alcohol, Other Drugs, and Addiction**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An overview of the role of alcohol and other drugs in society with emphasis on such topics as patterns of use, major categories of drugs, use/misuse/addiction, and approaches to prevention, intervention, and treatment. This course is not open to students who are enrolled in or have received credit for SOC 106 or PSY 106. (Fall, Spring) (Letter Grade Only)

### **SOC 110 Introduction to Marriage & Family**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SOC 130

A study of today's family from a sociological perspective. An overview of intimate relationships, including love, sex, gender roles, dating, forming partnerships, marriage, parenting, family values, and cultural differences is presented. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 120 Race and Ethnic Relations**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SOC 150

A survey and analysis of ethnic groups and their relations in the United States including the stratification systems, prejudice, and discrimination. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 122 Sociology of the Hispanic Culture**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

A sociological exploration of the Hispanic culture which includes their educational, political and economic status. Emphasis will be on immigration patterns, culture, images, cultural values, social images, assimilation patterns and pluralism. Hispanic groups to be studied will include Mexican Americans, Puerto Rican Americans, Cuban Americans.(F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SOC 155 Media and Society**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An exploration of the complex interaction between the mass media and individuals, culture and other social institutions. While focused on the United States, the issue of an increasingly globalized mass media and the emergence of global culture is also addressed.

Topics include the effects of mass media on public opinion and popular culture; the various racial, ethnic and gender stereotypes in the mass media; the ways in which politics affects and is affected by mass communication; the consequences of privately owned media; the major changes in technologies; and the emergence and growth of a "global culture" based on media technology and organizations. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **SOC 160 Cities and Urban Life**

### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

This course is an introduction to the multi-disciplinary field of urban studies. Taking advantage of the contributions made by disciplines such as history, sociology, economics, psychology, political science, architecture and planning, the course explores the following topics: The origin of cities; the physical, social and cultural characteristics of cities and metropolises; the complexity, richness and challenges of everyday life in urban society; the social problems that plague urban America; and the various strategies being used to solve urban problems and enhance the metropolitan experience. The focus of the course is primarily (although not exclusively) the United States, and special attention is given to issues of class, race and gender. (Fall, Spring) (Letter Grade or Pass/No Pass)

## **Spanish**

### **SPAN 101 Elementary Spanish I**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SPAN 100

This course is designed for non-native Spanish speakers and therefore ideal for students with minimal or no exposure to Spanish. SPAN 101 offers an introduction to the Spanish language, presenting students with introductory vocabulary and grammar, reading and writing skills as well as oral and listening skills (including pronunciation). This course also includes an introduction to cultural aspects of the Spanish-speaking world. Not open to students who have received credit for Spanish 120 and 121. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **SPAN 102 Elementary Spanish II**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SPAN 110

Prerequisite: SPAN 101 - Elementary Spanish I ; or SPAN 121; or 2 years of High School Spanish

This course is a continuation to SPAN 101. Students work on further vocabulary and grammar skills, pronunciation, oral and listening skills, reading skills, and writing skills. This course also includes cultural aspects of the Spanish-speaking world not covered in SPAN 101 and/or expands on cultural aspects presented in SPAN 101. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **SPAN 103 Intermediate Spanish I**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SPAN 200

Advisories: ENGL 514 - Writing Skills 4

Prerequisite: SPAN 102 - Elementary Spanish II ; or 3 years of high school Spanish

SPAN 103 is designed for intermediate Spanish speakers, entirely taught in Spanish, and therefore ideal for Heritage Speakers, and/or native Spanish-speakers wishing to improve reading and writing literacy. SPAN 103 covers vocabulary and grammar with an emphasis on listening/oral, reading, and writing skills at the intermediate level. This course also includes cultural components of the Spanish-speaking world. (Fall) (Letter Grade or Pass/No Pass)

### **SPAN 104 Intermediate Spanish II**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: SPAN 210

Advisories: ENGL 514 - Writing Skills 4

Prerequisite: SPAN 103 - Intermediate Spanish I ; or 4 years of high school Spanish

This course is designed for intermediate Spanish speakers, entirely taught in Spanish, and therefore ideal for Heritage Speakers, and/or native Spanish-speakers wishing to improve reading and writing literacy. SPAN 104 is a continuation of SPAN 103. It covers vocabulary and grammar with an emphasis on listening/oral, reading, and writing skills at the intermediate level. This course also includes cultural components of the Spanish-speaking world. (Spring) (Letter Grade or Pass/No Pass)

### **SPAN 105 Advanced Composition and Grammar**

#### **5.0 units**

Acceptable for credit: Transfer to UC, CSU

Corequisite: or concurrent enrollment in SPAN 104.

Prerequisite: SPAN 103 - Intermediate Spanish I ; or SPAN 104 - Intermediate Spanish II

SPAN 105 is designed for advanced Spanish speakers, entirely taught in Spanish, and ideal for Heritage Speakers, and/or native Spanish-speakers wishing to improve their reading and writing literacy at the advanced level. This course emphasizes writing skills at the advanced level, covering the most common types of essay styles (descriptive, narrative, argumentative, academic), and focusing on the writing process as a communicative process. Students will review Spanish grammar, essay structure, and improve on formal vocabulary selection via reading and writing exercises. The oral production component is also evaluated. Also included are cultural and literary components of the Spanish-speaking world. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SPAN 111 Intermediate Spanish Conversation**

#### **2.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: SPAN 102 - Elementary Spanish II ; or 3 years of High School Spanish

This course is designed to practice vocabulary and grammar covered in SPAN 102 with an emphasis in pronunciation, oral, and listening skills. Reading and writing skills are covered as well. Using a communicative style, students practice Spanish grammar, sentence structure, vocabulary, and oral skills. This course also includes cultural aspects of the Spanish-speaking world. This conversation course, taught entirely in Spanish, is designed for

students who have completed SPAN 102. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SPAN 112 Advanced Spanish Conversation**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Prerequisite: SPAN 111 - Intermediate Spanish Conversation ; or SPAN 103 - Intermediate Spanish I ; or SPAN 104 - Intermediate Spanish II

This course is designed to practice vocabulary and grammar covered in SPAN 103 and SPAN 104, with emphasis in oral and listening skills at the advanced level. Reading and writing skills are covered as well. Spanish-language films are used as springboards for conversation of various themes, topics, and cultural experiences. Using a communicative style, students practice Spanish grammar, vocabulary, and oral skills. This conversation course is designed for advanced Spanish speakers, as well as Heritage speakers who wish to improve their oral skills. (Spring) (Letter Grade or Pass/No Pass)

### **SPAN 189 Independent Projects in Spanish**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

## **Speech Communication**

### **SPCH 101 Public Speaking**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 110

An introduction to the theory and practice of presenting speeches for various situations and audiences. Students will become better communicators by learning how to appropriately select a topic, research, organize, outline, and effectively present informative, persuasive, and special occasion speeches. (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **SPCH 102 Small Group Communication**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 140

Provides an introduction to the dynamics of communication in task-oriented groups. Through practice and research, students will explore group discussion theory including problem solving, decision making, verbal/nonverbal communication, leadership styles, conflict management, participation and roles. Oral group presentations are required. (F,S,U) (Letter Grade or Pass/No Pass)

### **SPCH 103 Interpersonal Communication**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 130

Explores the theories regarding conversational behavior as it is generated, enacted and understood in social and intimate relational contexts. Areas of study will include nonverbal messages, language, perception, power, listening, patterns, regulation, and communication competence. (Fall, Summer) (Letter Grade or Pass/No Pass)

### **SPCH 106 Argumentation and Debate**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 120

Advisories: ENGL 101 - Freshman Composition: Exposition ; and SPCH 101 - Public Speaking ; or SPCH 102 - Small Group Communication

An introduction to argumentation theory. Students develop skills in methods of research, organization, and delivery of arguments. Emphasis is on the development of logical and articulate arguments for claims. Critical listening and analytical thinking are developed through the application of argumentation theory to speeches, cases and debates. (Spring) (Letter Grade or Pass/No Pass)

### **SPCH 108 Oral Interpretation**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 170

Through theory and practice, students will discover and communicate the intellectual, emotional, and aesthetic meaning of literature by choosing, analyzing, rehearsing, and orally presenting short selections of prose, poetry, and drama. (S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **SPCH 110 Intercultural Communication**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

C-ID Course Number: COMM 150

A study of intercultural communication theory. An understanding of cultural aspects and communication problems within and between ethnic groups is emphasized. (S) (Fall, Spring, Summer) (Letter Grade or Pass/No Pass)

### **SPCH 189 Independent Projects**

#### **1.0 - 3.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities



such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate Academic Dean, or an instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and approved by the appropriate dean before the last day of enrollment. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester. (Fall, Spring) (Letter Grade or Pass/No Pass)

## Science, Technology, Engineering, And Math

### STEM 100 Success Strategies in Science, Technology, Engineering and Mathematics (STEM)

**1.0 unit**

Acceptable for credit: Transfer CSU

Intended for students pursuing majors in a STEM discipline. Introduces students to related career choices, academic planning, and college resources. Develops appropriate skills necessary for academic success in a STEM major. (Letter Grade or Pass/No Pass)

### STEM 140 Math & Science Teaching Careers

**1.0 unit**

Acceptable for credit: Transfer CSU

Advisories: ENGL 513 - Writing Skills 3 ; and MATH 311 - Algebra 1

This course is designed to expose math and science students to successful academic practices as well as the teaching profession. Students will explore a variety of teaching methods by observing local math and science teachers. The course introduces current issues in math and science education. This course requires 15 hours of structured field experience outside of the classroom, including an orientation and placement meeting that will provide students the opportunity to start acquiring required experience hours needed to enter a teaching credential program. Lecture: one hour weekly; Lab: one hour weekly TBA. Not open to students who have completed EDUC 140. (Spring) (Letter Grade or Pass/No Pass)

## Theatre

### THEA 101 Applied Professional Acting I

**10.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: Eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment

This course is the required prerequisite to all sophomore theatre arts courses. In a series of lectures, demonstrations, activities, assigned readings, and laboratory projects, the student examines the theatrical synthesis by exploring the elements of the actor's

instrument and process from the specific standpoint of the professional actor. Team-taught by the drama faculty, staff, and resident and guest artists, the student examines the aesthetics and theory of the drama, the nature of dramatic action, and the arts and crafts vital for communication with an audience. The class explores the interpretation of drama through the art of the actor, with exercises and laboratory projects designed to develop the actor's vocal, physical, emotional, creative, and intellectual capacities. This course is the equivalent of three units of basic acting, two units movement, two units of voice and speech, two units of dramatic theory, and one unit of singing techniques. This course is not open to students who have received credit for DRMA 101. (Fall) (Letter Grade Only)

### THEA 102 Applied Professional Acting 2

**10.0 units**

Acceptable for credit: Transfer to UC, CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment

Prerequisite: THEA 101 - Applied Professional Acting I

A continuation of THEA 101, with emphasis on individual development. This course is not open to students who have received credit for DRMA 102. (Spring) (Letter Grade Only)

### THEA 103 Beginning Professional Theatre Dance Styles

**2.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment

An introduction to dance styles appropriate to professional classic musical theatre productions, emphasizing vocabulary acquisition and exercises which develop the body stretch and flexibility, strength and improve rhythmic and movement coordination. Limitation on enrollment: Completion of the program application and procedures for enrollment. This course is not open to students who have received credit for DRMA 401. (Fall) (Letter Grade Only)

### THEA 104 Intermediate Professional Theatre Dance Styles

**2.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: THEA 103 - Beginning Professional Theatre Dance Styles

Limitations on Enrollment: Completion of the program application and procedures for enrollment

A study at the intermediate level of dance styles appropriate to professional contemporary as well as classic musical theatre productions, emphasizing across the floor combinations and choreography acquisition through exposure to set dance pieces from a variety of classic contemporary productions. This course is not open to students who have received credit for DRMA 401. (Fall) (Letter Grade Only)

### THEA 110 Beginning Production Laboratory

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Eligibility for Math 311



Limitations on Enrollment: Completion of the program application and procedures for enrollment.

The exploration and development of a theatrical production at a beginning level in a lab environment. Students apply the necessary skills for the process of mounting a professional theatrical production. This course is not open to students who have received credit for DRMA 112. (Fall, Spring) (Letter Grade Only)

### **THEA 111 Intermediate Production Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 110 - Beginning Production Laboratory and eligibility for MATH 311

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

The exploration and development of a theatrical production at an intermediate level in a lab environment. Students apply the necessary skills for the process of mounting a professional theatrical production. This course is not open to students who have received credit for DRMA 112. (Fall, Spring) (Letter Grade Only)

### **THEA 112 Advanced Intermediate Production Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 111 - Intermediate Production Laboratory and eligibility for Math 311

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

The exploration and development of a theatrical production at an advanced-intermediate level in a lab environment. Students apply the necessary skills for the process of mounting a professional theatrical production. This course is not open to students who have received credit for DRMA 112. (Fall, Spring) (Letter Grade Only)

### **THEA 113 Advanced Production Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 112 - Advanced Intermediate Production Laboratory and Eligibility for; MATH 311 - Algebra 1

The exploration and development of a theatrical production at an advanced level in a lab environment. Students apply the necessary skills for the process of mounting a professional theatrical production. This course is not open to students who have received credit for DRMA 112. (Fall, Spring) (Letter Grade Only)

### **THEA 114 Beginning Performance Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: Eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment

In this intensive beginning level laboratory course, the student can apply and develop all of the skills utilized in dramatic performances. Students may spend class hours with the instructor dealing with different performance situations, working under pressure to meet unchanging deadlines, and engaging in actual performance experiences. Therefore, absence from a production laboratory meeting is allowed only with prior approval of the instructor. This

course is not open to students who have received credit for DRMA 113. (Fall, Spring) (Letter Grade Only)

### **THEA 115 Intermediate Performance Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 114 - Beginning Performance Laboratory and eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

In this intensive intermediate level laboratory course, the student can apply and develop all of the skills utilized in dramatic performances. Students may spend class hours with the instructor dealing with different performance situations, working under pressure to meet unchanging deadlines, and engaging in actual performance experiences. Therefore, absence from a production laboratory meeting is allowed only with prior approval of the instructor. This course is not open to students who have received credit for DRMA 113. (Letter Grade Only)

### **THEA 116 Advanced Intermediate Performance Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: THEA 115 - Intermediate Performance Laboratory and eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

In this intensive advanced-intermediate level laboratory course, the student can apply and develop all of the skills utilized in dramatic performances. Students may spend class hours with the instructor dealing with different production situations, working under pressure to meet unchanging deadlines, and engaging in actual performance experiences. Therefore, absence from a production laboratory meeting is allowed only with prior approval of the instructor. This course is not open to students who have received credit for DRMA 113. (Letter Grade Only)

### **THEA 117 Advanced Performance Laboratory**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 116 - Advanced Intermediate Performance Laboratory and eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

In this intensive advanced-intermediate level laboratory course, the student can apply and develop all of the skills utilized in dramatic performances. Students may spend class hours with the instructor dealing with different performance situations, working under pressure to meet unchanging deadlines, and engaging in actual performance experiences. Therefore, absence from a production laboratory meeting is allowed only with prior approval of the instructor. This course is not open to students who have received credit for DRMA 113. (Fall, Spring) (Letter Grade Only)

### **THEA 120 Advanced Professional Acting 1**

#### **10.0 units**

Acceptable for credit: Transfer to UC, CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

Prerequisite: THEA 101 - Applied Professional Acting I

Through a series of lectures, demonstrations, activities, assigned readings and laboratory projects, the student will further explore the theatrical synthesis from the specific standpoint of the professional actor. Practical application of basic acting skills in the major theatrical styles with specific emphasis on personal acting problems will be supplemented by more intensive classes in vocal skills (including voice production and projection, articulation, use of the International Phonetic Alphabet, Standard American Speech and various dialects) and movement techniques for the actor (including techniques of relaxation, body alignment and concentration of energy, mask techniques, combat techniques, as well as solutions to specific physical characterization challenges required of the actor by period styles and production concepts). Script analysis and advanced techniques for scoring a dramatic text will be covered. Audition techniques and business survival skills will also be covered. The class will be team taught by the drama faculty and staff in conjunction with resident and guest artists. This course is not open to students who have received credit for DRMA 120. (Letter Grade Only)

### **THEA 121 Adv. Professional Acting II** **10.0 units**

Acceptable for credit: Transfer to UC, CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

Prerequisite: THEA 120 - Advanced Professional Acting 1 ; or DRMA 120

A continuation of THEA 120 with specific emphasis on personal acting issues in rehearsal and performance. This course is not open to students who have received credit for DRMA 121. (Spring) (Letter Grade Only)

### **THEA 122 Advanced Intermediate Professional Theatre Dance Styles** **2.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 104 - Intermediate Professional Theatre Dance Styles

Limitations on Enrollment: Completion of the program application and procedures for enrollment

A study at the advanced-intermediate level of dance styles appropriate to professional classic and contemporary musical theatre productions, emphasizing a growing mastery of musical theatre dance style techniques and rapid choreography acquisition. Students have the opportunity to create and teach their own movement combinations. This course is not open to students who have received credit for DRMA 401. (Fall) (Letter Grade Only)

### **THEA 123 Advanced Professional Theatre Dance Styles** **2.0 units**

Acceptable for credit: Transfer CSU

Advisories: THEA 122 - Advanced Intermediate Professional Theatre Dance Styles

Limitations on Enrollment: Completion of the program application and procedures for enrollment

A study at the advanced level of dance styles appropriate to professional classic and contemporary musical theatre productions, emphasizing techniques to succeed in a professional musical theatre dance audition and callback. Students will participate in mock dance auditions for a variety of production styles. This course is not open to students who have received credit for DRMA 401. (Spring) (Letter Grade Only)

### **THEA 198 Topics in Theatrical Performance** **0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

This course provides an opportunity to explore particular aspects of the performance disciplines which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition/interview and/or portfolio review. This is a lab course with offered units based on unit formula. (Fall, Spring) (Letter Grade Only)

### **THEA 198A Repertory of My Fair Lady and Man of La Mancha** **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

This course provides an opportunity to explore particular aspects of the performance disciplines which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition/interview and/or portfolio review. This is a lab course with offered units based on unit formula. (Summer) (Letter Grade Only)

### **THEA 199 Topics in Theatre Stagecraft** **0.5 - 3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

This course provides an opportunity to explore particular aspects of the technical disciplines which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition/interview and/or portfolio review. This is a lab course with offered units based on unit formula. (Fall, Spring) (Letter Grade Only)

### **THEA 199A Repertory of My Fair Lady and Man of La Mancha** **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

This course provides an opportunity to explore particular aspects of the performance disciplines which are not covered in detail in the existing program. Course includes public performances; therefore there is a limitation on enrollment based on audition/interview and/or portfolio review. This is a lab course with offered units based on unit formula. (Letter Grade Only)

## **THEA 301 Beginning Preparation for Repertory Production**

### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

A focused vocational course offering the opportunity for theatre practitioners to update, develop, and refine their skills on a specific topic, in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand resumes and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. This course is not open to students who have received credit for DRMA 303. (Fall, Spring) (Letter Grade Only)

## **THEA 302 Intermediate Preparation for Repertory Production**

### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 301 - Beginning Preparation for Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A focused vocational course offering the opportunity for theatre practitioners, who have some beginning experience, to update, develop, and refine their skills on a specific topic, in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand resumes and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. This course is not open to students who have received credit for DRMA 303. (Fall) (Letter Grade Only)

## **THEA 303 Advanced Intermediate Preparation for Repertory Production**

### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 302 - Intermediate Preparation for Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A focused vocational course offering the opportunity for theatre practitioners, who have some intermediate level experience, to update, develop, and refine their skills on a specific topic, in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand resumes and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. This course is not open to students who have received credit for DRMA 303. (Letter Grade Only)

## **THEA 304 Advanced Preparation for Repertory Production**

### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 303 - Advanced Intermediate Preparation for Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A focused vocational course offering the opportunity for theatre practitioners, who have some advanced-intermediate level experience, to update, develop, and refine their skills on a specific topic, in a professional theatre setting. Under the supervision of the professional staff, the students hone theatre skills and expand resumes and portfolios through their participation in the development and performance of a variety of theatrical productions in a repertory season. This course is not open to students who have received credit for DRMA 303. (Fall, Spring) (Letter Grade Only)

## **THEA 305 Materials, Tools, and Techniques 1**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: Eligibility for; MATH 311 - Algebra 1 ; and ENGL 100 - Writing in Career/Tech Fields ; or ENGL 101 - Freshman

Composition: Exposition

Limitations on Enrollment: Completion of program application and procedures for enrollment.

An introductory course in the tools, materials, and production techniques employed by a professional theatrical technician. This vocational course offers the opportunity for theatre practitioners to update, develop, and refine their skills in a professional theatre setting. This course is required of all students enrolled in the Drama -- Technical Theater Certificate program. This course is not open to students who have received credit for DRMA 304. (Fall, Spring) (Letter Grade Only)

## **THEA 306 Materials, Tools, and Techniques 2**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 305 - Materials, Tools, and Techniques 1 ; and eligibility for ENGL 100 or ENGL 101

Limitations on Enrollment: Limitation on Enrollment: Completion of the program application and procedures for enrollment.

An expansion on THEA 305 in the tools, materials, and production techniques employed by a professional theatrical technician. This vocational course offers the opportunity for theatre practitioners to update, develop, and refine their skills in a professional theatre setting. This course is required of all students enrolled in the Drama -- Technical Theater Certificate program. This course is not open to students who have received credit for DRMA 304. (Fall, Spring) (Letter Grade Only)

## **THEA 307 Planning, Production, and Management 1**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 305 - Materials, Tools, and Techniques 1 ; THEA 306 - Materials, Tools, and Techniques 2 ; and eligibility for MATH 311 and ENGL 100 or ENGL 101

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

An introductory course on planning, production, and management processes and techniques employed by professional theatrical artists and craftspersons. This vocational course offers the opportunity for theatre practitioners to update, develop, and refine their skills in a professional theatre setting. This course is required

of all students enrolled in the Drama -- Technical Theater Certificate program. This course is not open to students who have received credit for DRMA 304. (Fall, Spring) (Letter Grade Only)

## **THEA 308 Planning, Production, and Management 2**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 307 - Planning, Production, and Management 1 ; or proof of equivalent prior training and/or work experience; and eligibility for ENGL 100 or ENGL 101 and MATH 311

Limitations on Enrollment: Completion of the program application and procedures for enrollment.

An expansion on THEA 307 in the planning, production, and management processes and techniques employed by professional theatrical artists and craftspersons. This vocational course offers the opportunity for theatre practitioners to update, develop, and refine their skills in a professional theatre setting. This course is required of all students enrolled in the Drama -- Technical Theater Certificate program. This course is not open to students who have received credit for DRMA 304. (Fall, Spring) (Letter Grade Only)

## **THEA 310 Beginning Summer Touring Repertory Production**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A course in which the beginning career-oriented theatre student works in every aspect of preparation for touring multiple-production season. Each student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing, house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis, and discussion. This course is not open to students who have received credit for DRMA 115. (Summer) (Letter Grade Only)

## **THEA 311 Intermediate Summer Touring Repertory Production**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 310 - Beginning Summer Touring Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A course in which the intermediate career-oriented theatre student works in every aspect of preparation for touring multiple-production season. Each student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing, house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists

who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis, and discussion. This course is not open to students who have received credit for DRMA 115. (Summer) (Letter Grade Only)

## **THEA 312 Advanced Intermediate Summer Repertory Production**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 311 - Intermediate Summer Touring Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A course in which the advanced-intermediate career-oriented theatre student works in every aspect of preparation for touring multiple-production season. Each student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing, house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis, and discussion. This course is not open to students who have completed DRMA 115. (Summer) (Letter Grade Only)

## **THEA 313 Advanced Summer Touring Repertory Production**

### **10.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: THEA 312 - Advanced Intermediate Summer Repertory Production

Limitations on Enrollment: Completion of program application and procedures for enrollment.

A course in which the advanced career-oriented theatre student works in every aspect of preparation for touring multiple-production season. Each student is placed in the repertory company according to proficiency in a major area of emphasis. Areas of study include acting, singing, dance, design, costume crafts, property crafts, lighting, sound and scenery crafts, marketing, house and stage management. Within the framework of preparation for touring repertory theatre, the student is challenged with the rigors of a professional experience among practicing professional artists who collaborate in a program of lecture, rehearsal, technical preparation, self-analysis, and discussion. This course is not open to students who have received credit for DRMA 115. (Summer) (Letter Grade Only)

## **Viticulture And Enology**

### **VEN 101 Introduction to Winemaking/Enology**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An examination of the principles of enology (winemaking) including history, grape growing, chemistry, wine microorganisms, fermentation, winemaking operations, cooperage, physiology and sociology of wine, and health and legal issues. This course is

not open to students who have received credit for AG 101. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **VEN 102 Introduction to Viticulture**

#### **3.0 units**

Acceptable for credit: Transfer to UC, CSU

An introduction to viticulture including grape growing, biology, anatomy, history, distribution, propagation, varieties, wine types, climate, common diseases and pests. This course is not open to students who have received credit for AG 102. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **VEN 103 Sensory Evaluation of Wine**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Must be 21 years of age or older.

An exploration of the principles of sensory wine evaluation. Demonstrates how wine quality is affected by climate, viticulture practices, production techniques, grape varieties, vineyard location, oak aging, and storage conditions. Participants will survey and evaluate commercial wine styles. Limitation on enrollment: students must be 21 years of age or older. This course is not open to students who have received credit for AG 103. (Fall) (Letter Grade or Pass/No Pass)

### **VEN 104 Advanced Sensory Evaluation of Wine**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Limitations on Enrollment: Must be 21 years of age or older

Prerequisite: VEN 103 - Sensory Evaluation of Wine ; or VEN 103 - Sensory Evaluation of Wine

An investigation of Bordeaux, Burgundian, and Rhone varietals from regions where they occur world wide -- France, USA, Chile, Italy, Australia, New Zealand, and Germany. Focuses on geography/soils, enological considerations, viticulture practices, wine production techniques and styles produced. This course is not open to students who have received credit for AG 104. (Spring) (Letter Grade or Pass/No Pass)

### **VEN 105 Wine Marketing and Sales**

#### **3.0 units**

Acceptable for credit: Transfer CSU

An introductory overview of the wine industry, production, planning, marketing channels, advertising, promotion, packaging, pricing, retail/wholesale distribution, and public relations. This course is not open to students who have received credit for AG 105. (Letter Grade or Pass/No Pass)

### **VEN 106 Winery and Vineyard Financial Management**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: CBIS 371 - Intro to Excel

Presents the many aspects of operating a small to medium-sized winery in today's business environment. Topics include an overview of the California grape and wine industry, government compliance, financial planning (capital and operating budgets), grape supply options, grape contracts, financial and managerial accounting for vineyards and wineries. Includes the basics of

vineyard and winery financial management e.g. using financial statements and what they mean, cash flow management, financial and investment analysis, banking and funding sources. The class combines short lecture and hands-on experience to gain practice with, and examine the limitations of, each analysis. Some basic understanding of Microsoft Excel is recommended. This course is not open to students who have received credit for AG 106. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **VEN 114 Wine Business**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: BUS 101 - Introduction to Business ; ENGL 514 - Writing Skills 4

The course will cover the basics of wine business for commercial wine production, sales, marketing, logistics, compliance and administration. The class combines short lecture and hands-on experience to gain practice with, and examine the limitations of, each analysis. The student will work in small groups analyzing regional wine industries. This course is not open to students who have received credit for AG 114. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **VEN 120 Viticulture Operations 1**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: VEN 102 - Introduction to Viticulture ; or VEN 102 - Introduction to Viticulture

Vineyard practices for the fall and winter seasons, including harvest, pruning, fertilization, weed control, erosion control, and propagation. Laboratory work will stress practical applications of viticulture theory. Operations in commercial vineyards will be studied through field trips. This course is not open to students who have received credit for AG 120. (Fall) (Letter Grade or Pass/No Pass)

### **VEN 121 Viticulture Operations 2**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Advisories: VEN 102 - Introduction to Viticulture ; or VEN 102 - Introduction to Viticulture

Vineyard practices for the spring season including cultivation, frost control, planting, training, irrigation, disease, and pest control. Laboratory work will stress practical applications of viticulture theory. Operations in commercial vineyards will be studied through field trips. This course is not open to students who have received credit for AG 121. (Spring) (Letter Grade or Pass/No Pass)

### **VEN 122 Viticulture Operations 3**

#### **3.0 units**

Acceptable for credit: Transfer CSU

Vineyard practices for the summer season including canopy management, crop load assessment and adjustment, pest and disease monitoring and management, weed control, irrigation, and grape quality improvement techniques. This course is not open to students who have received credit for AG 122. (Summer) (Letter Grade or Pass/No Pass)

**VEN 125 Soils and Plant Nutrition****4.0 units**

Acceptable for credit: Transfer to UC, CSU

Advisories: CHEM 120 - Introductory Chemistry

A study of the physical, chemical and biological properties of soils, including plant nutrition and factors affecting the availability of nutrients. Composition, value, use and application of fertilizer materials and soil amendments will be covered. The course is not open to students who are enrolled in or have received credit for AG 125. (Fall, Spring) (Letter Grade or Pass/No Pass)

**VEN 130 Integrated Pest Management****4.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: VEN 102 - Introduction to Viticulture (or completion of AG 102)

A study of the various pests and diseases found in California vineyard, fruit, vegetable, nut and grain crops - emphasizing pest and disease identification, sampling and monitoring techniques, and control methods. Integrated pest management approaches will be emphasized, including the latest bio-control strategies, biotechnological advances, and disease modeling for risk management. Students will visit local vineyards and farms providing "hands-on" learning opportunities. Two separate lab sections will be offered in order to provide students the appropriate option for their agricultural field of interest. Section I will be for the Viticulture focus, Section II will be for the Agriculture focus. This course is not open to students who are enrolled in or have received credit for AG 130. (Letter Grade or Pass/No Pass)

**VEN 135 Grapevine Physiology****1.0 unit**

Acceptable for credit: Transfer CSU

Advisories: VEN 102 - Introduction to Viticulture ; or VEN 102 - Introduction to Viticulture

An advanced study of grapevine physiology and phenology. Topics include vine balance, flowering and fruit set, stages of berry growth and vine water status. This course is designed for those working in the wine grape industry and already familiar with vineyard operations. This course is not open to students who have received credit for AG 135. (Letter Grade or Pass/No Pass)

**VEN 140 Viticulture Operations 4****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: VEN 120 - Viticulture Operations 1 ; or VEN 120 - Viticulture Operations 1

Advanced vineyard practices for the fall season including crop projection, grape quality assessment, grape maturity monitoring, harvest coordination, post-harvest practices, and budgeting. Management planning and financial aspects of the operations are emphasized. This course is not open to students who have received credit for AG 140. (Fall) (Letter Grade or Pass/No Pass)

**VEN 141 Viticulture Operations 5****3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: VEN 121 - Viticulture Operations 2 ; or VEN 121 - Viticulture Operations 2

Advanced vineyard practices for the winter and spring seasons including vine balance determination, pruning, cover crop management, frost protection, vine training, vineyard research trials, and budgeting. Management planning and financial aspects of the operations are emphasized. This course is not open to students who have received credit for AG 141. (Spring) (Letter Grade or Pass/No Pass)

**VEN 142 Viticulture Operations 6****1.0 unit**

Acceptable for credit: Transfer CSU

Prerequisite: VEN 122 - Viticulture Operations 3 ; or VEN 122 - Viticulture Operations 3

Advanced vineyard practices for the summer season including equipment operation and maintenance, vine training, vineyard research trials, and budgeting. Management planning and financial aspects of the operations are emphasized. This course is not open to students who have received credit for AG 142. (Summer) (Letter Grade or Pass/No Pass)

**VEN 151 Winery Equipment****2.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: Completion of or concurrent enrollment in; VEN 101 - Introduction to Winemaking/Enology ; or VEN 101 - Introduction to Winemaking/Enology

Presents all aspects of winery equipment; function, use, location, safe operation and repair. A strong emphasis is placed on safety and legal compliance. Production, storage and packaging equipment are included. This course is not open to students who have received credit for AG 151. (Fall) (Letter Grade or Pass/No Pass)

**VEN 179A Intro to Precision Viticulture****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course will provide an introduction to the techniques used in precision viticulture. Some of the technologies and techniques will include Geographical Information Systems (GIS), Global Positioning Systems (GPS), Electromagnetic Induction (EM), Normalized Difference Vegetation Index (NDVI) and Ground Penetrating Radar (GPD). An emphasis will be put on applying these techniques to increase grape quality and spatial uniformity, reducing input costs, and more accurately assessing yield estimates. (A) (Letter Grade or Pass/No Pass)

**VEN 301 Pairing Wine and Food****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must be 21 years of age or older.

Designed to familiarize students with the components of tasting wine and food, to develop wine evaluation techniques, and to pair wines with appropriate food. This course is not open to students who have received credit for AG 301. (Letter Grade or Pass/No Pass)

**VEN 302 Progressive Wine and Food Pairing****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable



Limitations on Enrollment: Must be 21 years of age or older.  
Designed to give students an understanding of how to ensure food flavors and intensity are maximized, while serving a wider range of wines. This course is not open to students who have received credit for AG 302. (Letter Grade or Pass/No Pass)

### **VEN 303 European Wine and Food**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Must be 21 years or older  
Designed for students wishing to expand their knowledge of wine and food pairings. Focuses on European as well as California wines with appropriate regional food. This course is not open to students who have received credit for AG 303. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **VEN 304 Dessert Wine and Food Pairing**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Limitations on Enrollment: Must be 21 years of age or older.  
Designed for advanced students wishing to expand their knowledge in wine and dessert pairings. Champagnes, sparkling wines and a variety of dessert wines (ports, sherries, Madeira) will be presented. This course is not open to students who have received credit for AG 304. (Letter Grade or Pass/No Pass)

### **VEN 305 Pairing the Wines and Foods of Provence**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: VEN 301 - Pairing Wine and Food  
Limitations on Enrollment: Must be 21 years of age or older.  
Designed for advanced students wishing to expand their knowledge of wine and food pairings. Focuses on the distinctive foods and wines of the Provence region in southern France. This course is not open to students who have received credit for AG 305. (Letter Grade or Pass/No Pass)

### **VEN 306 Pairing the Wines and Foods of Tuscany**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: VEN 301 - Pairing Wine and Food ; or VEN 301 - Pairing Wine and Food  
Limitations on Enrollment: Must be 21 years or older at time of registration.  
Designed for advanced students wishing to expand their knowledge of specific wine and food pairings. Focuses on the distinctive foods and wines of the Tuscan region in northern Italy. This course is not open to students who have received credit for AG 306. (Letter Grade or Pass/No Pass)

### **VEN 307 Vineyard Irrigation**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Students will receive a general background in vineyard irrigation water management, including theory and practice lectures. Vineyard water stress monitoring, ETo, crop coefficients and drip irrigation topics will be covered. This course is not open to students

who have received credit for AG 307. (Letter Grade or Pass/No Pass)

### **VEN 308 Wine Analysis**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Students will receive a general background in wine analysis with theory and demonstrations. Most common and important wine analysis in current winemaking industry settings will be practiced in teams providing hands on experience. This course is not open to students who have received credit for AG 308. (Letter Grade or Pass/No Pass)

### **VEN 310 Winemaking Operations I**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: VEN 101 - Introduction to Winemaking/Enology ; or VEN 101 - Introduction to Winemaking/Enology  
Limitations on Enrollment: Must be 18 years of age or older and registered in the Enology/Viticulture major or must be 21 years old if not enrolled in the major.  
The first course in a four-semester sequence, students are introduced to winemaking from grape harvest through bottling. This course is not open to students who have received credit for AG 310. (Letter Grade or Pass/No Pass)

### **VEN 311 Winemaking Operations II**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: VEN 310 - Winemaking Operations I ; and VEN 101 - Introduction to Winemaking/Enology ; or VEN 310 - Winemaking Operations I ; and VEN 101 - Introduction to Winemaking/Enology  
Limitations on Enrollment: Must be 18 years of age or older and registered in the Enology/Viticulture major or must be at least 21 years old.  
The second course in a four-semester sequence, students will chemically analyze, fine, and bottle the red and white wines that were fermented in the previous semester. This course is not open to students who have received credit for AG 311. (Spring) (Letter Grade or Pass/No Pass)

### **VEN 312 Advanced Viticulture**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Prerequisite: VEN 102 - Introduction to Viticulture ; or VEN 102 - Introduction to Viticulture  
This class prepares students to understand and make decisions for the viticultural process including canopy management, frost protection, specific deficit irrigation, morphology and physiology of the grapevine. This course is not open to students who have received credit for AG 312. (Letter Grade or Pass/No Pass)

### **VEN 314 Organic/Biodynamic Winegrowing**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Introduction to professional organic and biodynamic wine grape production with ecological production methods. Theory and practice with an emphasis on regional growing conditions. Includes

appropriate planting, maintenance, soil fertility, biodiversity, and ecological pest management, current winery practices, and cost analysis. This course is not open to students who have received credit for AG 314. (Spring) (Letter Grade or Pass/No Pass)

### **VEN 315 Fertilizers and Plant Nutrition**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable

This course will provide an introduction to fertilizers and plant nutrition. Essential nutrients for plant development will be studied as well as deficiency symptoms and methods of correcting for these deficiencies. Fertilizer and other soil amendments will be studied as well as the proper management and application methods for these products. The course is not open to students who are enrolled in or have received credit for AG 315. (Spring) (Letter Grade or Pass/No Pass)

### **VEN 316 Introduction to Wine Microbiology**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: VEN 101 - Introduction to Winemaking/Enology ; or VEN 101 - Introduction to Winemaking/Enology

Introduction to the natural development, physiology, biochemistry and control of yeasts and bacteria involved in the making, aging and spoilage of wine, including conditions that affect microbial growth and ecology during vinification, characteristics of various wine microorganisms, and identification and prevention of spoilage. This course is not open to students who have received credit for AG 316. (Letter Grade or Pass/No Pass)

### **VEN 318 Advanced Winemaking**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must be 21 years old or older.

Prerequisite: VEN 101 - Introduction to Winemaking/Enology ; or VEN 101 - Introduction to Winemaking/Enology

Students will receive an advanced background in winemaking, in a lecture setting. Relevant winemaking issues are analyzed and discussed. The course will cover the principles of viticulture for winemaking, wine chemistry, principles and practices of making standard types of wines, with special reference to methods of vinification and stability. A brief discussion of winemaking costs and alternatives is presented. This course is not open to students who have received credit for AG 318. (Letter Grade or Pass/No Pass)

### **VEN 320 Wine Tasting Room Sales**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Presents all aspects of wine tasting room service and sales. Cellar clubs, selling techniques, wine vocabulary, and the laws and regulations of serving wine in California are covered. Legalities of shipping wine interstate and the various means of wine shipment are discussed. This course is not open to students who have received credit for AG 320. (Letter Grade or Pass/No Pass)

### **VEN 321 Winemaking Operations III**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must be 21 years of age or older

Prerequisite: VEN 310 - Winemaking Operations I ; or VEN 310 - Winemaking Operations I

The third course in a two year sequence, students are introduced to all practical winemaking from grape harvest through bottle aging, including specific winemaking procedures. This course is not open to students who have received credit for AG 321. (Letter Grade or Pass/No Pass)

### **VEN 322 Winemaking Operations IV**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must be 21 years of age or older

Prerequisite: VEN 311 - Winemaking Operations II ; or VEN 311 - Winemaking Operations II

The fourth course in a two year sequence (four semesters), students are introduced to all practical process of winemaking from grape harvest through bottle aging, including specific winemaking procedures such as stability treatments, personnel management, and wine packaging and quality control. This course is not open to students who have received credit for AG 322. (Letter Grade or Pass/No Pass)

### **VEN 323 Vineyard and Winery Evaluation**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: VEN 102 - Introduction to Viticulture ; and VEN 101 - Introduction to Winemaking/Enology

This course will include the data collection and process analysis of vineyards and wineries in the San Luis Obispo and Santa Barbara counties. The students and instructor will perform a comparative analysis of two local vineyard/winery operations, assessing a wide range of different variables ranging from soil conditions vineyard practices and winemaking to wine sales and product distribution. Students will present detailed reports at the end of the course with findings and suggestions to the management of the selected operations, addressing their specific concerns when applicable. (Letter Grade or Pass/No Pass)

### **VEN 324 Small Acreage Grapegrowing**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Learn about small vineyard establishment and maintenance. Topics include: selection of site, variety and rootstock, vineyard layout, irrigation, trellising, planting and pest control. This course is not open to students who have received credit for AG 324. (Letter Grade or Pass/No Pass)

### **VEN 330 Harvest Boot Camp**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Limitations on Enrollment: Must be 18 years of age or older

Course provides a basic understanding of the vocabulary and procedures for harvesting both at the vineyard and at the winery. Efficiency and safety issues are addressed. Management principles encountered in the day-to-day harvest operation. This course is not open to students who have received credit for AG 330. (Letter Grade or Pass/No Pass)

## Vocational English As A Second Language

### VESL 7300 Family Childcare Business

**0.0 hours**

Acceptable for credit: N - Noncredit

This course is a non-credit class designed to prepare students for establishing a licensed business in Early Child Care and Education. It will combine learning English (including skills in reading, writing, speaking, and listening) while completing the non-credit "Family Child Care Business" course. It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C or D) or demonstrated high-intermediate/Advanced ESL competency through assessment. This course is needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### VESL 7301 Child Health and Safety

**18.0 - 30.0 hours**

Acceptable for credit: N - Noncredit

This course is a non-credit class designed to prepare students for establishing a licensed business in Early Care and Education. This course will cover English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Basic Health, Safety and Nutrition". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Level C and D ESL) or demonstrated high-intermediate/Advanced ESL competency through assessment. This course is needed to complete a noncredit certificate in operating a childcare business. This course is Module 2 of 5 modules. (Noncredit )

### VESL 7302 Developmental Needs of Children

**0.0 hours**

Acceptable for credit: N - Noncredit

This course is a non-credit class designed to prepare students for establishing a licensed business in the Early Child Care & Education field. This course will cover English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Developmental Needs of Children". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. This course is needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### VESL 7303 Infant and Toddler Care

**0.0 hours**

Acceptable for credit: N - Noncredit

This course is a noncredit class designed to prepare students for establishing a licensed business in Early Child Care. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the noncredit course "Caring for Infants and Toddlers". It is designed for students who have successfully completed NESL 7005 or 7007(levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. This course is needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### VESL 7304 Ethics and Business Contracts

**0.0 hours**

Acceptable for credit: N - Noncredit

This course is a non-credit class designed to prepare students for establishing a licensed business in Early Child Care and Education. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Ethics and Business Contracts". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. This course is needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### VESL 7310 History of Child Development

**36.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare non-credit students for success in the credit level Early Child Care Studies field. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "History of Child Development". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. (Noncredit )

### VESL 7311 Guidance and Interaction

**18.0 - 30.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare non-credit students for success in the credit level Early Child Care Studies Field. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Guidance and Interactions". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. (Noncredit )

### VESL 7312 The Importance of Play

**32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare non-credit students for success in the credit level Early Child Care Studies Field. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course, "The Importance of Play". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated High-intermediate/Advanced ESL competency through assessment. (Noncredit )

### VESL 7313 Observation Made Easy

**36.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare non-credit students for success in the credit level Early Child Care Studies Field. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Observation Made Easy". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/Advanced ESL competency through assessment. (Noncredit )

**VESL 7314 Assessment & Delivery Systems****15.0 - 25.0 hours**

Acceptable for credit: N - Noncredit

This course is designed to prepare non-credit students for success in the credit level Early Child Care Studies Field. It will combine learning English and Basic Skills in reading, writing, speaking, and listening while completing the non-credit course "Assessments and Delivery Systems". It is designed for students who have successfully completed NESL 7005 or NESL 7007 (Levels C and D) or demonstrated high-intermediate/advanced ESL competency through assessment. (Noncredit )

**Vocational Community Education (Noncredit)****VOCE 7018A Spanish in the Workplace****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Students develop conversational skills to communicate effectively with Spanish speakers in the workplace. Topics include phrases and vocabulary for problem-solving, handling real-life situations, avoiding mishaps and misunderstandings, and on-the-job procedures leading to increased employee productivity and safety.

**VOCE 7019 RDA State Board Exam Prep****2.0 - 32.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This refresher course is designed to prepare students for the practical component of the California Registered Dental Assistant (RDA) exam. Students are introduced to practical components of the exam and test-taking strategies.

**VOCE 7031A Career Lab****96.0 - 108.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Visit this open-access lab to obtain guidance in determining career goals, developing a resume, or finding a job. Access computers, Internet resources, periodicals, videos, and office equipment necessary for a successful job search. After completing the initial lab orientation use the lab to fulfill your individual career objectives!

**VOCE 7034A Welding Lab****0.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This open-entry/open-exit laboratory is designed to provide students with the opportunity to refine and expand welding techniques. Students may be concurrently enrolled in credit welding classes. Basic welding skills are not taught in this class.

**VOCE 7035A Jewelry Making & Repair****60.0 - 68.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Discover how easy it is to make a ring or pendant and perform simple jewelry repairs. Topics include jewelry restoration,

restringing pearls or beads, silversmithing, and goldsmithing. (Fall, Spring, Summer) (Noncredit )

**VOCE 7100 Computers and You: Level 1****32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Learn the basics of using a computer. Understanding computer lingo, what to look for when buying a computer and an introduction to Windows - opening and saving files, Word Processing & the Internet. (Fall, Spring, Summer) (Noncredit )

**VOCE 7101 Computers and You: Level 2****32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: TEEN Y

Designed to build on the skills mastered in Computers & You Level 1. Includes Microsoft Word, Internet, basic Email skills (using Outlook.com), and an introduction to Excel and PowerPoint. (Fall, Spring, Summer) (Noncredit )

**VOCE 7102A Computers and You: Level 3****64.0 - 72.0 hours**

Acceptable for credit: N - Noncredit

This class is designed to build on the skills mastered in Computers and You: Level 2. Students learn more in-depth applications for Microsoft Excel, PowerPoint, Word, and e-mail. (Pass/No Pass)

**VOCE 7103 Introduction to the Internet****16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Navigate the exciting world of cyberspace. Learn the business and consumer uses of the internet, such as websites, blogs, maps and directions, podcasts and more. Learn the inner workings of the Internet, as well as an introduction to buying and selling online. (Fall, Spring, Summer) (Noncredit )

**VOCE 7105 Intro to Microsoft Word****32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: TEEN Y

Designed for beginning to intermediate computer users who would like to learn many of the features of Word, while creating letters, certificates, flyers, labels and more. (Fall, Spring, Summer) (Noncredit )

**VOCE 7107 Intro to Microsoft Excel****32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: TEEN Y

Students learn the basics of Excel: creating spreadsheets, formulas, charts, and more. (Fall, Spring, Summer) (Noncredit )

**VOCE 7108 Computer Skills Lab****40.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: TEEN Y

Designed for the person wanting to upgrade their computer skills. This is a great place to learn at your own pace using a manual or practice what you are learning in other computer classes. This lab

allows for the flexibility of designing your own schedule by choosing the hours you wish to attend. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7109 Microsoft Windows**

**16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Introduction to Windows, the most widely used computer operating system. Learn to customize the desktop, organize files, transfer files and photos from one device to another, perform basic photo editing, use OneDrive (cloud) services, and Windows Apps. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7110 Social Media**

**16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Learn how to use some of today's most popular Social Media. Some of the media covered will include Instagram, Facebook, Pinterest and Skype. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7111 Email**

**16.0 - 18.0 hours**

Acceptable for credit: C - Credit - Not Degree Applicable

Learn to use Microsoft Outlook E-mail, Calendaring, and Contacts functions. Learn to send and receive mail, add contacts, set appointments and reminders, create distribution groups, and more. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7112 Intro to Microsoft PowerPoint**

**16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Students will learn the basics of creating PowerPoint slide shows for business, home and volunteer use. Students will create slides, and add pictures, animation, and music to their presentations. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7113 Intro to Microsoft Publisher**

**16.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Students will learn to create flyers, tri-folds, business cards, calendars, cards, envelopes & labels for business, volunteer, or home use. (Fall, Spring, Summer) (Noncredit )

### **VOCE 7300 Family Childcare Business**

**9.0 - 15.0 hours**

Acceptable for credit: N - Noncredit

Interested in operating a family childcare business? Learn about California licensing procedures, marketing techniques, contracts and fees and other aspects of operating an independently-owned-business. This course is module 1 of 5 needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### **VOCE 7301 Child Health and Safety**

**18.0 - 30.0 hours**

Acceptable for credit: N - Noncredit

Learn about a child's health, safety and nutrition regulations, policies and procedures with hands-on practice in this course designed for individuals interested in family childcare. Obtain the beginning knowledge and basic skills that could help in providing a

safe and nurturing environment for children. This course is module 2 of 5 needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### **VOCE 7302 Developmental Needs of a Child**

**15.0 - 25.0 hours**

Acceptable for credit: N - Noncredit

Understanding the development needs of children is important to establishing a child-friendly home daycare setting. Topics covered include children and discipline, culturally inclusive learning environments, inclusion of children with special needs, and age appropriate activities. This course is module three of five needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### **VOCE 7303 Infant and Toddler Care**

**12.0 - 20.0 hours**

Acceptable for credit: N - Noncredit

Providing quality care for infants and toddlers begins with knowing how to setup appropriate features in the home environment and how to communicate effectively to meet the needs of the children. Learn strategies to build a relationship with the parents and child. This course is module 4 of five needed to complete a noncredit certificate in operating a childcare business. (Noncredit )

### **VOCE 7304 Ethics and Business Contracts**

**15.0 - 25.0 hours**

Acceptable for credit: N - Noncredit

Module five - child care business course teaches students how they can best run their home day care using professional ethics as a guide to build professional relationships, select and maintain staff, interact with parents, maintain contract and other business practices. (Noncredit )

### **VOCE 7310 History of Child Development**

**36.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy and professional history. (Noncredit )

### **VOCE 7311 Guidance and Interaction**

**18.0 - 30.0 hours**

Acceptable for credit: N - Noncredit

This class will provide basic information regarding the importance of guidance and interactions with children. An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. (Noncredit )

### **VOCE 7312 The Importance of Play**

**32.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

This class will provide basic information regarding the importance of play, its function, and relevance to a child's physical, cognitive and psychosocial development. It will also cover topics such as conservation, rough and tumble/war play and developmentally appropriate practices. (Noncredit )

**VOCE 7313 Observation Made Easy****36.0 - 48.0 hours**

Acceptable for credit: N - Noncredit

The course applies observation and assessment skills in evaluating all areas of the child's growth and development. It also includes documentation of child's skills and behaviors. Knowledge of the child's development and learning would provide the framework for curriculum and teaching strategies. (Noncredit )

**VOCE 7314 Assessment and Delivery Systems****15.0 - 25.0 hours**

Acceptable for credit: N - Noncredit

In this course, the student becomes aware of various types of educational programs and delivery systems available to children 0-8 years of age. The student will be exposed to licensing regulations and procedures, the roles and responsibilities of a teacher and the concept of a teaching philosophy and professional ethics in Early Childhood programs. (Noncredit )

**VOCE 7401 Floral Design: Beyond the Basics****18.0 - 24.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Build on skills learned in Beginning Floral Design by practicing new techniques while refining your eye for design. Continue exploring color, line, texture, and shape. Experiment with new ideas and watch your confidence and creativity bloom. Students create arrangements to take home weekly.

**VOCE 7402 Floral Design: Beyond Basics II****18.0 - 24.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This course introduces more advanced floral design techniques and color theory, while students increase independence and creativity in their floral designs. Students create arrangements to take home weekly.

**VOCE 7405 Floral Seasonal Celebrations****6.0 - 18.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Create a festive atmosphere in your home for the season through the use of fresh flowers, greenery, and decorative items. Design concepts such as color, line, texture, and shape are demonstrated. Projects include centerpieces, novelty designs, permanent botanicals, and fresh florals, all with a seasonal theme. Students create arrangements to take home weekly.

**VOCE 7500 Beg. Tax & Record Keeping****1.0 - 6.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Record keeping is the foundation of business success. Course topics include tax deduction basics, itemizing expenses, setting up filing systems, and tax ID information. This class is designed for new family child care providers.

**VOCE 7501 Four Steps to a Profession: Family Child Care as a Profession****4.0 - 32.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Family child care providers often feel isolated from others in their profession and have limited opportunities for professional development and networking because they spend most working hours in their home. This course helps providers develop personal coping and self-care skills and creative solutions to address the drawbacks of the profession, thereby increasing longevity in the profession. At least one year of experience as a child care provider is suggested when enrolling in this course.

**VOCE 7502 Intro to Tax Preparation****16.0 hours**

Acceptable for credit: N - Noncredit

This course introduces basic tax concepts and terminology needed to prepare simple federal/state income tax returns. Students must also enroll in Introduction to Income Tax Preparation Software and Income Tax Preparation Internship to complete the Income Tax Preparation certificate program.

**VOCE 7503 Intro to Tax Prep Software****8.0 hours**

Acceptable for credit: N - Noncredit

This course provides interactive computerized training using the IRS-approved Tax Wise federal/state income tax preparation software, under the supervision and coordination of a qualified instructor. Students must also enroll in Introduction to Income Tax Preparation and Income Tax Preparation Internship of the Income Tax Preparation certificate program.

**VOCE 7504 Income Tax Prep Internship****40.0 hours**

Acceptable for credit: N - Noncredit

This internship provides 40 hours of supervised basic federal/state income tax return preparation hands-on experience utilizing Tax Wise software for low-income families. Students must also enroll in Introduction to Income Tax Preparation and Introduction to Income Tax Preparation Software of the Income Tax Preparation certificate program. (Pass/No Pass)

**VOCE 7603A Landscape Construction****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

This course provides an overview of landscape construction and maintenance operations. Topics include landscape installation and maintenance, pruning methods, blueprint reading, cost estimates, pest control, landscape tools and equipment, and ornamental plant identification. Management problems surrounding recreation areas, parks, highways, and commercial and residential areas are also discussed.

**VOCE 7615A Flower Gardening****48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y



Learn the basics of flower gardening including planting techniques, general care, and the planting calendar. Discussion covers the basic types of small-flowering plants: annuals, perennials, bulbs, roses, and wildflowers. Discover ways to maximize seasonal color with a special focus on using color and foliage texture to create an attractive garden and landscape.

### **VOCE 7619A Growing Vegetables and Herbs**

**48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Learn everything you need to know about growing vegetables and herbs on the Central Coast. Explore gardening basics, including growing vegetables and herbs from seed and harvesting. This class will help every level of gardener have the most productive garden imaginable.

### **VOCE 7621A Epicurean Kitchen Garden**

**48.0 - 54.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

Expand your gardening, cooking, and dining repertoires with a gardener's look at the fruits, nuts, vegetables, herbs, and berries that comprise local, national, and international cuisine. Explore garden-grown ingredients from cultures ranging from the Central Coast to those of Japan, Greece, and the Middle East. Each class meeting offers recipes to try at home.

### **VOCE 7701 Kitchen Basics ICCA**

**24.0 - 27.0 hours**

Acceptable for credit: N - Noncredit

Learn the fundamentals of food preparation including terminology, equipment, and techniques in this introductory course designed for individuals working in a kitchen, interested in starting a home-based culinary business, or who wish to improve their kitchen skills. Emphasis is on basic kitchen skills including food safety and sanitation, creating an efficient and safe workspace and kitchen weights and measures. Specific content includes knife skills, understanding ingredients, reading, scaling, and implementation of recipes. Students will be prepared to obtain a food handlers license. (Fall, Spring, Summer) (Pass/Satisfactory Progress/No Pass)

### **VOCE 7703 Introduction to Cooking**

**24.0 - 27.0 hours**

Acceptable for credit: N - Noncredit

Explore the workings of commercial kitchen operations in this introductory class designed to develop basic skills in the preparation of eggs, soups, vegetables, starches and grains, poultry and meats. Students learn about the many culinary positions available in a commercial kitchen while exploring their talents and interests. (Fall, Spring, Summer) (Pass/Satisfactory Progress/No Pass)

### **VOCE 7704 Understanding California Cottage Law**

**12.0 - 13.5 hours**

Acceptable for credit: N - Noncredit

Explore the possibilities of creating a legal at-home workspace for food production. Learn the details of Class A & B licensing procedures, including requirements regarding employees, labeling, sales, and distribution. Covers permitted foods and workplace restrictions and the review of relevant federal food codes. (Fall, Spring) (Pass/Satisfactory Progress/No Pass)

### **VOCE 7707 Culinary Skills Development**

**12.0 - 13.5 hours**

Acceptable for credit: N - Noncredit

Perfect your cooking skills and products. Students will receive assistance by professional chefs in perfecting recipes and menus to consistently create products using the most efficient and cost effective ingredients and production methods. Class will include lab time for one on one instruction. (Fall, Spring, Summer) (Pass/Satisfactory Progress/No Pass)

### **VOCE 7708 Baking Skills Development**

**12.0 - 13.5 hours**

Acceptable for credit: N - Noncredit

Perfect your baking skills and products. Students will receive guidance from a professional chef to perfect recipes and menus to consistently create products using the most efficient and cost effective ingredients and production methods. Class will include lab time for one on one instruction. (Fall, Spring, Summer) (Pass/Satisfactory Progress/No Pass)

### **VOCE 7800 Commercial Truck Driving: Preparation for the Learner's Permit**

**80.0 - 90.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: Students must be 1) over 21 years of age, 2) submit an authorized Medical Examination Report, and 3) have a valid driver's license at the time of registration. Individuals wishing to haul hazardous materials must pass a Transportation Security Administration (TSA) background check. This course prepares students to take the knowledge test required to obtain a California Commercial Learner's Permit. (Fall) (Noncredit )

### **VOCE 7801 Commercial Truck Driving: Behind-the-Wheel Training**

**160.0 - 180.0 hours**

Acceptable for credit: N - Noncredit

Limitations on Enrollment: Students must be 1) over 21 years of age, 2) submit an authorized Medical Examination Report, and 3) have a valid California driver's license at the time of registration. Individuals wishing to haul hazardous materials must pass a Transportation Security Administration (TSA) background check. Prerequisite: VOCE 7800 - Commercial Truck Driving: Preparation for the Learner's Permit

This course prepares students to take the road test required to obtain a California Commercial Driver's License – Class A or B. Upon completion of the course and passing the road test, students are prepared for an entry-level position in the trucking industry. A Certificate of Completion is awarded to students who perform 80% or higher on all competency tests and pass the California Commercial Driver's License – Class A or B test. (Noncredit )

## Veterinary Technology

### VT 300 Introduction to Veterinary Technology

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
This course introduces students to the field of veterinary technology. It will provide an overview of the various roles and responsibilities of the veterinary team. Basic animal nursing skills and clinical procedures are introduced. Topics will include veterinary medical terminology, diagnostic procedures, and veterinary medical and surgical nursing care. (Fall, Spring) (Letter Grade or Pass/No Pass)

### VT 301 Veterinary Anatomy, Physiology and Terminology

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program  
Prerequisite: BIOL 100 - Introductory Biology ; and CHEM 120 - Introductory Chemistry  
This course introduces the biology of animals, the chemistry of life and medical terminology used in veterinary medicine. It includes the study of basic normal anatomy and physiology (in both large and small animals) in a body systems format, along with related vocabulary and spelling. Commonly used veterinary acronyms and abbreviations are woven throughout the course where relevant. (Fall, Spring) (Letter Grade Only)

### VT 302 Veterinary Office Procedures

#### 2.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
This course covers the various roles of the veterinary health care team including veterinary hospital record management, client and interpersonal communication, medical terminology, and legal, ethical, and safety issues. (Fall, Summer) (Letter Grade Only)

### VT 303 Veterinary Pharmacology

#### 2.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
This course covers basic concepts in veterinary pharmacology, including the chemistry of pharmaceuticals and biologics commonly used in the maintenance of animal health. It also includes generic terminology, abbreviations for prescriptions, labeling requirements, state and federal laws, classification of materials, weights and measures, drug dosage flow rates, pharmacological mathematics and the metric system, side effects and drug interactions, and the safe handling of biohazardous material. (Letter Grade Only)

### VT 304 Clinical Pathology & Microbiology

#### 3.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
Prerequisite: BIOL 100 - Introductory Biology  
This course introduces students to the expansive field of clinical pathology and microbiology. Topics include bacteriology, clinical chemistry, urinalysis, cytology, hematology, internal and external parasites, immunology, and serology. (Fall, Spring) (Letter Grade Only)

### VT 305 Medical Nursing & Animal Care

#### 4.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
Prerequisite: VT 301 - Veterinary Anatomy, Physiology and Terminology or RVT 301  
This course covers diseases and animal nursing including animal examination, handling, and restraint of various species used in an animal hospital setting; including sanitation, administration of medicine, emergency treatment and critical care, diagnostic and therapeutic techniques, venipuncture, electrocardiology, application of casts, splints and other appliances. It includes zoonotic diseases, their causes and effects, and immunology of animals. (Spring) (Letter Grade Only)

### VT 306 Surgical Nursing & Dentistry

#### 4.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
Prerequisite: VT 301 - Veterinary Anatomy, Physiology and Terminology  
This course covers surgical nursing, assisting and instrumentation, surgical preparation, suturing techniques, post-operative care, anesthesia instrumentation, induction and monitoring, dental prophylaxis and extractions, IV catheter placement, sterilization of equipment and the maintenance of an aseptic environment. (Spring) (Letter Grade Only)

### VT 307 Veterinary Radiology and Radiation Safety

#### 2.0 units

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: ENGL 101 - Freshman Composition: Exposition  
Limitations on Enrollment: Acceptance into the Veterinary Technology Program.  
This course provides an introduction to the study of radiology, diagnostic imaging and equipment used in veterinary practices, radiation safety, and the safe operation of radiographic equipment. It includes image capture and processing, and patient positioning. (Fall, Spring) (Letter Grade Only)

## Wildland Fire Technology

### WFT 101 Wildland Fire Behavior

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: WFT 302 - Basic Incident Command System I-200

A study of wildland fire behavior. Topics include influences that affect basic wildland fire behavior, the seven factors that must be continuously monitored in making wildland fire behavior predictions, and identification of the tools necessary to make spot fire behavior predictions. (S) (Letter Grade or Pass/No Pass)

### WFT 102 Wildland Firefighter Safety and Survival

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: WFT 302 - Basic Incident Command System I-200

An exploration of the situations and conditions that result in fire shelter deployments, serious injuries and fatalities for wildland firefighters. (F) (Letter Grade or Pass/No Pass)

### WFT 103 Wildland Fire Operations

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: WFT 302 - Basic Incident Command System I-200

An exploration of the command structure and operational processes for ground and air operations in the control of wildland fires. (S) (Letter Grade Only)

### WFT 104 Wildland Public Information Officer, Prevention, and Investigation

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: WFT 302 - Basic Incident Command System I-200

Presents the roles and functions of the information officer, emphasizing fire prevention and investigation communications. (F) (Letter Grade Only)

### WFT 105 Wildland Fire Planning, Logistics, and Finance

**3.0 units**

Acceptable for credit: Transfer CSU

Advisories: WFT 302 - Basic Incident Command System I-200

Explores the roles, responsibilities and functions of the planning, logistics, and finance sections that are utilized during the control of wildland fires. (S) (Letter Grade Only)

### WFT 301 Introduction to Incident Command System I-100

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

An introduction to the principles of the Incident Command System, its structures and terminology. (A) (Pass/No Pass)

### WFT 302 Basic Incident Command System I-200

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 301 - Introduction to Incident Command System I-100

A continuation of Wildland Fire Technology 301 providing a basic introduction to the Incident Command System (ICS). Develops the foundation necessary for the student to participate as a member of a wildland fire incident. Topics include the principles and features of ICS, an organizational overview, incident facilities, incident resources, and common responsibilities. (A) (Pass/No Pass)

### WFT 303 Intermediate Incident Command System I-300

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200

A study of the organizational elements within each section of the ICS, staffing considerations, and reporting relationships. Not open to students who are enrolled in or who have completed EMS 313. (Pass/No Pass)

### WFT 304 Advanced Incident Command System I-400

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 303 - Intermediate Incident Command System I-300

A course of study that pertains to ICS relationships and duties of command staff members, Agency Representatives, and activation of the command general staff. Not open to students who are enrolled in or who have completed EMS 314. (A) (Pass/No Pass)

### WFT 305 Multi-Agency Coordination I-401

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 304 - Advanced Incident Command System I-400

A course of study describing the major elements associated with developing and implementing an effective multi-agency coordination system. This course describes essential differences between Area Command, Multi-Agency Coordination Systems, and Jurisdictional Emergency Operations Centers. (A) (Pass/No Pass)

### WFT 306 Incident Command System for Executives I-402

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 305 - Multi-Agency Coordination I-401

This course of study presents an ICS orientation for executives, administrators, and policy makers. It provides a basic understanding of ICS, unified and area command, and multi-agency coordination to those persons responsible for establishing or implementing policy, but who normally are not a part of the on-scene ICS organization. (A) (Pass/No Pass)

## Wildland Fire Technology Logistics

### WFTL 310 Display Processor S-245

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200

Presents information to enable the student to be able to function as a display processor on a wildland fire incident. Includes how to determine logistical needs, including work materials and work area, how to identify sources of information and collect data, and to identify and be able to create required maps, overlays and displays. (Pass/No Pass)

### **WFTL 311 Check-In Recorder/Status Recorder J-248**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200  
Presents how to record information on location and status of equipment, record information of personnel on appropriate forms, and develop organization charts and assignments lists based on information recorded. (Pass/No Pass)

### **WFTL 312 Ordering Manager J-252**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260  
Includes, establishing ordering procedures, set up filing system, identify times and locations for delivery of supplies and equipment, and submission of all ordering documents to documentation control unit before demobilization. (Pass/No Pass)

### **WFTL 313 Receiving and Distribution Manager J-253**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260  
Includes establishing procedures for receiving supplies and equipment, review incident action plan and operational instructions provided by logistics section concerning scope and duration of incident operations that may involve supply requirements, determine supply unit personnel requirements, inspect and accept supplies, and provide inventory records to documentation unit upon demobilization of supply unit. (Pass/No Pass)

### **WFTL 314 Base/Camp Manager J-254**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260  
Presents the information necessary for the student to be able to function as a base camp manager on a wildland fire incident. (Pass/No Pass)

### **WFTL 315 Equipment Manager J-255**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260  
Includes obtaining necessary equipment and supplies, how to provide maintenance and fueling according to schedule, preparation of schedules to maximize use of available

transportation, inspection of equipment, and preparation and use of proper equipment agreements. (Pass/No Pass)

### **WFTL 316 Tool and Equipment Specialist J-256**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 310 - Basic Fire Suppression Orientation S-110

Presents the necessary information for the student to function as a tool and equipment specialist on a wildland fire incident. The course includes utilization of work space, work assignment, numbers and kind of tools ordered/on hand, determine personnel requirements, establish a tool inventory and accountability system, ensure that all appropriate safety measures are taken in tool conditioning area, and demobilize tool area in accordance with incident demobilization plan. (Pass/No Pass)

### **WFTL 317 Incident Communications Manager J-257**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260

Includes how to establish the incident communications/message center, acquire supplies to set up and operate the incident communications/message center, and how to organize and manage the incident communications/message center. (Pass/No Pass)

### **WFTL 318 Communications Equipment/Procedures S-258**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTL 317 - Incident Communications Manager J-257  
Includes, clear text radio transmissions, interrelationships between ICS functions and the communications unit leader, organize and staff the communications unit, and develop an effective communications plan based on the needs for each operational period and complete the necessary paperwork and forms. (Pass/No Pass)

### **WFTL 319 Security Manager J-259**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260  
Includes briefing information from facilities unit leader, how to establish contacts with local law enforcement agencies as required, special custodial requirements which may affect security operations, and develop a security plan. (Pass/No Pass)

### **WFTL 320 Fire Business Management Principles S-260**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 330 - Basic Air Operations S-270  
This course of study presents an understanding of the fiscal issues of wildland firefighting. It includes employee responsibilities and conduct, be able to recruit personnel and equipment for wildland

firefighting, and provide fiscally sound equipment and personnel time recording. (Letter Grade or Pass/No Pass)

### **WFTL 321 Personnel Time Recorder J-261**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTL 310 - Display Processor S-245

Includes establishing and maintaining employee time reports within the first operational period, how to initiate, gather, or update a time report from all applicable personnel assigned to the incident for each operational period, and ensure that all employee identification information is verified to be correct. Includes contractors and commissary records, and personnel pay documents (Pass/No Pass)

### **WFTL 322 Equipment Time Recorder J-262**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

Includes how to establish and maintain equipment time reports within the first operational period, the necessary steps to initiate, gather, or update a time report from all applicable equipment assigned to the incident for each operational period, and how to close out equipment time documents prior to personnel or equipment leaving the incident. (Pass/No Pass)

### **WFTL 323 Claims Manager J-263**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

Presents what is required for handling all claims related activities (other than injury) for the incident, utilization of proper support for conducting a claims investigation, preparation of claim reports, and provide information to protect the interest of the government. (Pass/No Pass)

### **WFTL 324 Compensation for Injury Manager J-264**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

This course of study presents the information necessary for the student to be able to function as a compensation for injury manager on a wildland fire incident. (Pass/No Pass)

### **WFTL 325 Commissary Manager J-266**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

This course of study presents the information needed for a student to be able to function as a commissary manager on a wildland fire incident. (Pass/No Pass)

### **WFTL 326 Documentation Unit Leader J-342**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

Provides the student with the information necessary to be able to function as a documentation unit leader on a wildland fire incident. (Pass/No Pass)

### **WFTL 327 Situation Unit Leader J-346**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 329 - Fire Business Management Principles S-260

Provides the student with the information necessary to be able to function as a situation unit leader on a wildland fire incident. (Pass/No Pass)

### **WFTL 328 Demobilization Unit Leader J-347**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260

Includes objectives, priorities, and constraints on demobilization from the planning section chief, agency representatives, and contractors as applicable, how to obtain identification and description of surplus resources and probable release times, developing release procedures in coordination with other sections/units and agency dispatch center(s), and coordinate and closely supervise the demobilization process. (Pass/No Pass)

### **WFTL 329 Resources Unit Leader J-348**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Provides the student with the information necessary to be able to function as a Resource Unit Leader. (Pass/No Pass)

### **WFTL 330 Facilities Unit Leader J-354**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents an understanding of the duties and responsibilities if the facilities unit leader in a wildland fire incident. (Pass/No Pass)

### **WFTL 331 Ground Support Unit Leader J-355**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a Ground Support Unit Leader on a wildland fire incident. (Pass/No Pass)

**WFTL 332 Supply Unit Leader J-356****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

This course of study presents the information necessary for the student to be able to function as a Supply Unit Leader on a wildland fire incident. This course includes description of the activities of the Supply Unit, what is needed to setup and staff Supply Unit, organization of and staffing the Supply Unit, and demobilization. (Pass/No Pass)

**WFTL 333 Food Unit Leader J-357****1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a food unit leader on a wildland fire incident. (Pass/No Pass)

**WFTL 334 Communications Unit Leader J-358****4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTL 318 - Communications Equipment/Procedures S-258 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Provides the student with the information necessary to function as a communications unit leader on a wildland fire incident. (Pass/No Pass)

**WFTL 335 Medical Unit Leader J-359****1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

This course of study presents the information necessary for the student to be able to function as a medical unit leader. Course covers how to determine level of emergency medical activities, activate medical unit, preparation of the medical emergency plan, and respond to requests for medical aid. (Pass/No Pass)

**WFTL 336 Cost Unit Leader J-362****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a cost unit leader on a wildland fire incident. The course includes how to set up a system for collecting and documenting all expenditures relating to a wildland fire incident, establishing procedures for collecting cost data, coordination with appropriate personnel, and prepare reports in accordance with agency policy and procedures. (Pass/No Pass)

**WFTL 337 Compensation/Claims Unit Leader J-263****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a Compensation/Claims Unit Leader on a wildland fire incident. Includes set up system for investigating, documenting, and processing claims, initiate investigations on claims, and preparation of claim reports in accordance with agency policy and procedures. (Pass/No Pass)

**WFTL 338 Time Unit Leader J-365****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a time unit leader on a wildland fire incident. (Pass/No Pass)

**WFTL 339 Procurement Unit Leader J-368****0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a procurement unit leader on a wildland fire incident. (Pass/No Pass)

**WFTL 340 Planning Section Chief J-440****1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a planning section chief on a wildland fire incident. (Pass/No Pass)

**WFTL 341 Logistics Section Chief J-450****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a logistics section chief on a wildland fire incident. (Pass/No Pass)

**WFTL 342 Finance Section Chief S-460****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable



Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 334 - Leadership and Organizational Development S-301

Presents the information necessary for the student to be able to function as a finance section chief on a wildland fire incident. (Pass/No Pass)

### **WFTL 359 Weather Info Management System**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
- (Letter Grade Only)

## **Wildland Fire Technology Operations**

### **WFTO 310 Basic Fire Suppression Orientation S-110**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200  
Course of study that provides information essential for a non-operations individual assigned to a wildland fire incident to have a successful first assignment. (Pass/No Pass)

### **WFTO 311 Firefighter Training S-130**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200 ; and WFTO 313 - Introduction to Wildland Fire Behavior S-190  
Course of study designed to train new firefighters in basic firefighting skills and the knowledge necessary to effectively handle wildland firefighting situations. (Pass/No Pass)

### **WFTO 312 Advanced Firefighter Training S-131**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 311 - Firefighter Training S-130 ; and WFTO 313 - Introduction to Wildland Fire Behavior S-190 ; and WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 317 - Portable Pumps and Water Use S-211 ; and WFTO 318 - Wildfire Powersaws S-212  
Course of study that provides advanced wildland firefighting training and education for those who wish to become qualified in the first level supervision position of advanced firefighter/squad boss. (Pass/No Pass)

### **WFTO 313 Introduction to Wildland Fire Behavior S-190**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200  
Course of study that provides an introduction to wildland fire behavior issues that are important to wildland fire spread and safety to firefighters involved in suppression. (Pass/No Pass)

### **WFTO 314 Initial Attack Commander ICT S-200**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200 ; and WFTO 312 - Advanced Firefighter Training S-131 ; and WFTO 325 - Ignition Operations S-234

Course of study designed for the initial attack commander of small non-complex wildland fires the ability to safely suppress the fire within the guidelines of the incident command system and agency guidelines. (Pass/No Pass)

### **WFTO 315 Supervisory Concepts and Techniques S-201**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200 ; and WFTO 311 - Firefighter Training S-130 ; and WFTO 313 - Introduction to Wildland Fire Behavior S-190  
Course of study for the experienced wildland firefighter to be able to apply the principles of communication and supervision required of a single resource boss to perform on a wildland fire incident. (Pass/No Pass)

### **WFTO 316 Fire Operations in the Urban Interface S-205**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 311 - Firefighter Training S-130 ; and WFTO 314 - Initial Attack Commander ICT S-200  
A course of study to prepare initial attack incident commanders and company officers to effectively deal with wildland fires that threaten life, property, and improvements. (Pass/No Pass)

### **WFTO 317 Portable Pumps and Water Use S-211**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200  
Course of study for firefighters to gain competency in the use of portable pumps and water in wildland fire fighting. (Letter Grade or Pass/No Pass)

### **WFTO 318 Wildfire Powersaws S-212**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 311 - Firefighter Training S-130  
Course for those planning to operate, or directly supervise, the operation of chain saws on wildfires. (Pass/No Pass)

### **WFTO 320 Interagency Helicopter Training Guide S-217**

**2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 311 - Firefighter Training S-130  
Course covers the tactical and logistical use of helicopters in wildland fire control operations. (Letter Grade or Pass/No Pass)

### **WFTO 321 Crew Boss S-230**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 325 - Ignition Operations S-234 ; and WFTO 330 - Basic Air Operations S-270

Course is designed to identify the hazards and risks on wildland fires and teach the tactics which are appropriate for the crew boss during various wildland fire situations. The course also identifies crew boss responsibilities prior to and during mobilization, on the incident and during demobilization. (Pass/No Pass)

### **WFTO 322 Engine Boss S-321**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 325 - Ignition Operations S-234 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 330 - Basic Air Operations S-270

Course designed to prepare advanced firefighters/squad bosses with the ability to understand and function as an engine boss in the control of wildland fires. This course presents the issues of tactics and safety in the control of wildland fires, and identifies the mobilization and demobilization procedures of a engine crew on a wildland fire incident. (Pass/No Pass)

### **WFTO 323 Dozer Boss S-232**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 325 - Ignition Operations S-234 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 330 - Basic Air Operations S-270

Course is designed to prepare advanced firefighters/squad bosses with the ability to understand and function as a dozer boss in the control of wildland fires. Topics include the issues of tactics and safety in the control of wildland fires and identifies the mobilization and demobilization procedures of a dozer on a wildland fire incident. (Pass/No Pass)

### **WFTO 324 Tractor Plow Boss S-233**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 325 - Ignition Operations S-234 ; and WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 330 - Basic Air Operations S-270

Course is designed to prepare advanced firefighters/squad bosses with the ability to understand and function as a tractor/plow boss in the control of wildland fires. Topics include the issues of tactics and safety in the control of wildland fires and identifies the mobilization and demobilization procedures of a tractor/plow on a wildland fire incident. (Letter Grade or Pass/No Pass)

### **WFTO 325 Ignition Operations S-234**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 312 - Advanced Firefighter Training S-131 ; and WFTO 322 - Engine Boss S-321

The application of safety considerations involved in a firing operation. Topics include planning, ignition procedures and techniques and equipment applicable to wildland and prescribed fire. The role of the ignition specialist or firing boss as the organization manages escalation from non-complex to a complex

fire situation will also be addressed. (Letter Grade or Pass/No Pass)

### **WFTO 326 Felling Boss S-235**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 329 - Fire Business Management Principles S-260

Course is designed to meet the training needs of a felling boss on a wildland fire incident. Topics include the responsibility of building fireline in areas where saws are needed to build fire control lines, determination of the capabilities and limitations of the felling crew, identify the special equipment needed for the assignment, understand the issues of tactics and safety in the control of wildland fires, and identify the mobilization and demobilization procedures of a felling crew on a wildland fire incident. (Pass/No Pass)

### **WFTO 327 Staging Area Manager J-236**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 329 - Fire Business Management Principles S-260

Course is designed to meet the training needs of a staging manager who is responsible for establishing and maintaining staging areas where resources are assigned prior to being given a specific fire assignment. Topics include all activities in the staging area including the determination if there is any need for temporary assignment of logistics service and support (fuel tender, food delivery, sanitation) to staging areas and make arrangements for temporary logistics, if required, by notifying logistics section chief. (Pass/No Pass)

### **WFTO 328 Field Observer S-244**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 321 - Crew Boss S-230

Provides the necessary skills to function as a field observer on a wildland fire incident. The use of various types of maps in wildland fire control will be emphasized. (Pass/No Pass)

### **WFTO 329 Fire Business Management Principles S-260**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 321 - Crew Boss S-230 ; and WFTO 330 - Basic Air Operations S-270

This course of study is designed to teach the basic concepts of fiscal management of wildland fire incidents. It includes correct and fiscally sound personnel and equipment procurement, time recording, and proper documentation. (Pass/No Pass)

### **WFTO 330 Basic Air Operations S-270**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201

This course covers aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Note: The regulations, procedures and policies addressed in this course are primarily those governing federal agency and ICS operations. State, county, or other political subdivisions using this course will need to consult their agency having jurisdiction with respect to regulations, procedures and policies. (Pass/No Pass)

### **WFTO 331 Helispot Manager J-272**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 320 - Interagency Helicopter Training Guide S-217 ; WFTO 330 - Basic Air Operations S-270

Course is designed to provide instruction on the basic concepts of the helispot manager position which is responsible under the air support group supervisor or helicopter manager for management of a helispot on a wildland fire. (Pass/No Pass)

### **WFTO 332 Intermediate Wildland Fire Behavior S-290**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 311 - Firefighter Training S-130 ; WFTO 313 - Introduction to Wildland Fire Behavior S-190

Provides the necessary knowledge to develop fire behavior for effective and safe fire management operations. Topics include how changes in fuels and topography can provide full and partial barriers to the spread of wildland fires and explain the chimney effect in canyon topography. (Pass/No Pass)

### **WFTO 333 Incident Commander Multiple Resources S-300**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: WFTO 314 - Initial Attack Commander ICT S-200 ; WFTO 315 - Supervisory Concepts and Techniques S-201

The course includes what is required to take over the command of the wildland fire incident, what is entailed in a complete and up-to-date incident briefing prior to taking control of the incident, and to determine when the incident commander will assume command of an incident. (Letter Grade or Pass/No Pass)

### **WFTO 334 Leadership and Organizational Development S-301**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 314 - Initial Attack Commander ICT S-200 ; and WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 329 - Fire Business Management Principles S-260

Provides the experienced wildland firefighter with the communication and supervision skills necessary to perform as a unit leader on a wildland fire incident. (Pass/No Pass)

### **WFTO 335 Task Force/Strike Team Leader S-330**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 336 - Fire Suppression Tactics S-336 ; and WFTO 344 - Introduction to Wildland Fire Behavior Calculations S-390

Topics include utilization of increments of equipment in saving lives and property, and to develop the skills necessary to supervise the various types of equipment in wildland fire control. (Pass/No Pass)

### **WFTO 336 Fire Suppression Tactics S-336**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 315 - Supervisory Concepts and Techniques S-201 ; and WFTO 325 - Ignition Operations S-234 ; and WFTO 330 - Basic Air Operations S-270 ; and WFTO 344 - Introduction to Wildland Fire Behavior Calculations S-390

Course designed to instruct the experienced wildland firefighter with the tactics necessary for the safe utilization of resource to control wildland fires. Topics cover the review and comparison of tactical assignments with incident objectives, analyzing capabilities of the resources assigned and making work assignments for each resource to accomplish the tactical objectives in an assigned area. (Pass/No Pass)

### **WFTO 337 Division/Group Supervisor S-339**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 334 - Leadership and Organizational Development S-301

A course of study for Initial Attack Incident Commanders, Task Force/Strike Team Leaders to be able to function as a Division/Group Supervisor on a wildland fire incident. The course defines and differentiates between the division and group supervisor positions, and teaches the difference between the two positions. The relationships of Division/Group Supervisor is contrasted with Strike Team Leader, Task Force Leader, and Initial Attack Incident Commander. (Pass/No Pass)

### **WFTO 338 Intermediate Aviation Operations S-370**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 330 - Basic Air Operations S-270

This course of study is to provide Incident Commanders and other fire line supervisors with an understanding of the aviation tools and knowledge to effectively use aviation resources safely, effectively on a wildland fire incident. (Pass/No Pass)

### **WFTO 339 Helibase Manager S-371**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 320 - Interagency Helicopter Training Guide S-217 ; and WFTO 330 - Basic Air Operations S-270

A course of study that provides the information necessary for an advanced firefighter/crew boss or helicopter manager to take over the function of a helibase on a wildland fire incident. The course covers reporting to assigned helibase and how to determine

if staffing and aircraft needs are satisfactory, properly review and implement helibase checklist, identify problems that may necessitate a safety briefing and coordination with Air Support Group Supervisor and Air Tactical Group Supervisor. (Pass/No Pass)

### **WFTO 340 Helicopter Coordinator J-374**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 330 - Basic Air Operations S-270 ; and WFTO 336 - Fire Suppression Tactics S-336

Course is designed to teach the duties and responsibilities of the Helicopter Coordinator on a wildland incident. Topics include how to determine aircraft (air tankers and helicopters) operating within incident area of assignment, implement air safety requirements and procedures, and coordinate activities with air attack supervisor, air tanker coordinator, air support supervisor, and ground supervisor, and ground operations personnel. (Pass/No Pass)

### **WFTO 341 Air Support Group Supervisor S-375**

#### **1.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 303 - Intermediate Incident Command System I-300 ; and WFTO 334 - Leadership and Organizational Development S-301 ; and WFTO 339 - Helibase Manager S-371

The course identifies the duties of the Air Support Group Supervisor, who is primarily responsible for supporting and managing logistical support for helibase and helispot operations. The course identifies resource/supplies dispatched for air support group, requests special air support items from appropriate sources through logistics section, determines need for assignment of personnel and equipment at each helibase and helispot, and maintains coordination with airbases supporting the incident. (Pass/No Pass)

### **WFTO 342 Air Tanker Coordinator S-376**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 329 - Fire Business Management Principles S-260 ; and WFTO 330 - Basic Air Operations S-270 ; and WFTO 338 - Intermediate Aviation Operations S-370

Topics include if the restricted air space declaration has been requested through FAA, determine the location of fixed-wing facilities supporting air tanker operations, and determine if all aircraft including air tankers and helicopters operating within incident area of assignment. Survey incident area to determine situation, aircraft hazards, and other potential problems. (Pass/No Pass)

### **WFTO 343 Air Tactical Group Supervisor S-378**

#### **2.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 330 - Basic Air Operations S-270 ; and WFTO 340 - Helicopter Coordinator J-374

Course is designed to provide instruction on Air Tactical Group supervisor which is primarily responsible for the coordination of aircraft operations when fixed and/or rotary-wing aircraft are operating on a wildfire. (Pass/No Pass)

### **WFTO 344 Introduction to Wildland Fire Behavior Calculations S-390**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 332 - Intermediate Wildland Fire Behavior S-290

Topics include local and regional fire behavior issues that are critical to wildland firefighting, comparison of the effects of daytime solar radiation and nighttime heat losses from various sources, descriptions of their effects on wildland fire behavior. The relationship among general, local (convective), 20-foot, and mid-flame winds is presented along with a description of how topography affects fuels and their availability for combustion. How to determine spotting components, safety zone requirements, plotting fire size and shape, point source calculations, extreme fire behavior, and documentation required for briefings for fire line safety are also covered. (Pass/No Pass)

### **WFTO 345 Incident Commander S-400**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 329 - Fire Business Management Principles S-260

This includes how to set up organizational elements necessary to mitigate the emergency, request additional resources as needed, how to ensure planning meetings are held as necessary, details relating to coordination of staff activity, and how and when to assume command of an incident after the overall situation is reviewed, sufficient information is available to make logical decisions, and takeover coordination can be accomplished. (Pass/No Pass)

### **WFTO 346 Liaison Officer S-402**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 337 - Division/Group Supervisor S-339

Topics include the flow of information between command and all agencies involved in the incident, solving problems with the various agencies involved in the incident, and the difference between assisting and cooperating agencies. (Pass/No Pass)

### **WFTO 347 Safety Officer S-404**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 337 - Division/Group Supervisor S-339

Topics include how to make recommendations that will address those risks or hazards with the highest potential for accidents or injury and follow through with those of lesser degree, how to develop and present alternatives, and present issues related to direct intervention to immediately correct a dangerous situation. (Pass/No Pass)

### **WFTO 348 Standards for Survival PMS 416**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200

This course of study presents the introductory information for wildland firefighters on the safety aspects of how to fight fire aggressively but provide for safety first. This course includes information on how to initiate all action based on current and expected fire behavior, how to recognize current weather conditions and obtain forecasts, obtain current information on fire status, and remain in communication with crew members, your supervisor, and adjoining forces. (Pass/No Pass)

### **WFTO 349 Hazmat Awareness Pms 418**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
- (Letter Grade or Pass/No Pass)

### **WFTO 350 Command and General Staff S-420**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400 ; and WFTO 337 - Division/Group Supervisor S-339

This course of study presents advanced training for those individuals who will be assigned to the Command and General Staff positions on a wildland fire incident. This course presents topics that will develop the skills and knowledge that are necessary to perform on wildland Type 2 incidents in a command or general staff position, information required to set up organizational elements necessary to mitigate a wildland fire incident, how to request additional resources as needed, and supervision issues related to coordination of staff activity. (Pass/No Pass)

### **WFTO 351 Look Up, Look Down, Look Around PMS 427**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 311 - Firefighter Training S-130

This course of study is a wildland fire behavior refresher for experienced wildland firefighters. It presents the three principle environmental elements affecting wildland fire behavior, three factors of fuel that affect the start and spread of wildland fire, three factors of weather that affect fuel moisture, how wind affects wildland fire spread, four factors of topography that affect wildland fire behavior, and descriptions of the dangerous conditions that can develop in a box canyon and steep narrow canyons. (Pass/No Pass)

### **WFTO 352 Learn To BEHAVE Psm-428**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200 ; and WFTO 344 - Introduction to Wildland Fire Behavior Calculations S-390

The student will learn the BEHAVE fire behavior prediction and fuel modeling system. BEHAVE is an interactive computer program that can be adapted to a variety of wildland fire management needs. (Letter Grade Only)

### **WFTO 354 Operations Section Chief S-430**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 337 - Division/Group Supervisor S-339

Presents the information necessary to assess incident assignments and determine immediate needs and actions, a description of the six principles of command and the six basic rules of emergency operations management, delineation of the relationship between General Staff and the Operations Section Chief, and supervision of the operations function. (Pass/No Pass)

### **WFTO 355 Training Specialist S-445**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 335 - Task Force/Strike Team Leader S-330 ; and WFTO 327 - Staging Area Manager J-236 ; and WFTL 328 - Demobilization Unit Leader J-347 ; and WFTL 329 - Resources Unit Leader J-348

A course of study that presents the information needed to organize and implement an incident training program. This course includes how to analyze and prescribe training assignments to fulfill individual development needs of trainees, and to properly document individual trainee performance and the incident training program. (Pass/No Pass)

### **WFTO 356 Air Operations Branch Director S-470**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 304 - Advanced Incident Command System I-400

A detailed study of the ICS aviation organization. It includes understanding the latest regional aviation program and direction, the ability to apply the latest aviation tools and equipment used in the suppression of wildfires, application of the principles of safety when using aviation resources, recognition of the importance of following aviation regulation when using call-when-needed aircraft, and interaction among the aviation organization on an incident. (Pass/No Pass)

### **WFTO 357 Advanced Wildland Fire Behavior Calculations S-490**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFTO 344 - Introduction to Wildland Fire Behavior Calculations S-390

This course of study is the fourth National Wildfire Coordinating Group course in wildland fire behavior. This course is designed to give state-of-the-art capability to determine inputs for fire behavior determination and in-depth knowledge of interpretations of model outputs. The material presented teaches participants to project fire perimeter growth based on weather predictions and knowledge of fuels and topography. A variety of fire scenarios are presented for participants to make fire behavior calculations and interpretations. (Pass/No Pass)

### **WFTO 358 Facilitative Instructor PMS 925**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
Advisories: WFT 302 - Basic Incident Command System I-200  
This course of study is to provide experienced wildland firefighting personnel with technical competence in fire management and other disciplines to become effective adult education instructors. (Pass/No Pass)

## **WFTO 360 Hazardous Materials First Responder Update**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200

This course of study prepares the student to respond to a Hazardous Materials incident in a safe and competent manner and be able to function at an operational level. (Pass/No Pass)

## **WFTO 361 Suburban Urban Response**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

This course is designed to teach USFS, BLM, Park Service and Wildland Fire personnel in the tactic used to suppress Structure, Vehicle and extinguishing Flammable Liquids Fires. Students will get special instruction in proper use, care, and maintenance of SCBA equipment and Auto Extrication. (Letter Grade Only)

## **WFTO 362 Campbell Prediction System**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 312 - Advanced Firefighter Training S-131 ; and WFTO 332 - Intermediate Wildland Fire Behavior S-290

Provides an understanding of the fuel flammability issue in predicting wildland fire behavior. Topics include fire behavior prediction in wildland situations using flammability variations by time and aspect. Analysis and communications of the fire situation will be covered. (Pass/No Pass)

## **WFTO 363 Followership to Leadership L-280**

**1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 311 - Firefighter Training S-130

Designed as a self-assessment opportunity for individuals preparing for a leadership role. Topics include leadership values and principles, transition challenges for new leaders, situational leadership, teambuilding, and ethical decision-making. (Pass/No Pass)

## **WFTO 364 Incident Leadership L-381**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 363 - Followership to Leadership L-280

Presents leadership development training for incident response personnel who will function in fireline command roles. Topics include the leadership tools to effectively exert command and control over a quickly assembled team in a time constrained and rapidly changing incident environment. (Pass/No Pass)

## **WFTO 399A Dispatch Recorder D-110**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 101 - Wildland Fire Behavior

This course of study is designed to train potential dispatch recorders on the structure of an expanded dispatch organization and effectively perform with that organization. (Letter Grade or Pass/No Pass)

## **Wildland Fire Technology Prevention**

### **WFTP 310 Prescribed Fire for Burn Bosses**

**RX-300**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTO 344 - Introduction to Wildland Fire Behavior Calculations S-390

A study of the requirements and components for developing burn prescriptions and operational plans. Topics include identification of burning techniques applied to meet burn plan requirements, execution of the operational plan meeting local management objectives, smoke dispersal, and visibility objectives within public health standards. (Pass/No Pass)

### **WFTP 311 Introduction to Wildfire Prevention**

**P-101**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200

This course of study is to provide the student with an introduction to wildland fire prevention. The role of wildland fire prevention continues to be important in order to mitigate unplanned ignitions, prevent loss of life, and reduce undesirable damages to property and natural resources. (Pass/No Pass)

### **WFTP 312 Inspecting Fire Prone Property P-110**

**0.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTP 310 - Prescribed Fire for Burn Bosses RX-300

This course of study is to provide the student with little or no experience in inspecting property, how to conduct inspections of fire prone property, including houses and surrounding structures in forested or rural areas. (Pass/No Pass)

### **WFTP 313 California Basic Fire Prevention P-140**

**2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFT 302 - Basic Incident Command System I-200

This course of study presents the information necessary for the student to be able to function as a fire prevention personnel, the role of Cooperative Forest Fire Prevention, development of a sign and poster plan, interagency cooperation, the role of the National Fire Danger Rating System and fire prevention, and how to conduct inspections of residential and commercial operations. (Pass/No Pass)

### **WFTP 314 Wildfire Origin and Cause Determination P-151**

**1.5 units**

Acceptable for credit: D - Credit - Degree Applicable

Advisories: WFTP 313 - California Basic Fire Prevention P-140

This course of study presents the information necessary for the student to be able to conduct a wildland fire investigation. This course includes how to identify and collect equipment and supplies to conduct a wildfire investigation, record information about the fire, determine the origin of the fire, determine the cause of the fire, properly collect and preserve evidence, interview witnesses and



obtain suspect information, prepare and write reports, and how to present testimony before a judge and/jury. (Pass/No Pass)

### **WFTP 315 Introduction to Public Information Officer S-203**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Advisories: WFT 302 - Basic Incident Command System I-200  
 This course of study is to provide the student introductory information necessary for the student to be able to function as a public information officer on a non-complex wildland fire. This course includes, a description of the duties and responsibilities of a Type 3 information officer, the kinds and sources of information needed, how to gather and distribute information to meet the needs of print and electronic media, internal audiences, cooperators, communities, landowners homeowners, local government leaders, and the steps and materials needed to operate an information center and field work site. (Pass/No Pass)

### **WFTP 317 Intermediate Fire Prevention P-240**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 This course of study presents additional wildland fire prevention information required for the fire prevention technician. The materials presented include, application of federal and state fire laws, an overview of fire prevention planning and its significant components at district and forest level. (Pass/No Pass)

### **WFTP 320 Wildland Fire Prevention Planning P-301**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Advisories: WFT 302 - Basic Incident Command System I-200  
 This course of study is designed for fire managers, fire prevention specialists and planners, and other persons who have fire prevention planning responsibility. (Pass/No Pass)

### **WFTP 321 Wildland Fire Prevention Marketing P-303**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 This course of study is designed to provide the field Fire Prevention Specialist with the necessary tools to develop a wildfire prevention marketing plan. It includes methods to generate ideas and provide information to assist in the development of a successful wildfire prevention marketing program. (Pass/No Pass)

### **WFTP 322 Advanced Fire Prevention P-340**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 This course of study presents advanced techniques for the wildland fire prevention officer. It includes a definition of fire's role in ecosystem management, application of the principles of ecology, sociology, economics, communications, and marketing, to the development and implementation of a fire protection plan, and demonstrate how to gain support for the fire protection plan from management and adjacent land owners. (Pass/No Pass)

### **WFTP 323 Introduction to Fire Effects RX-340**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Advisories: WFTO 313 - Introduction to Wildland Fire Behavior S-190  
 This course of study present an understanding of land use activity and controlled fire situations. This course includes a description of fire as an ecological process, applications and limitations of fire use, first order fire effects and how to measure them, and the interaction of fire characteristics on natural and cultural resource components that determines first order fire effects. (Pass/No Pass)

### **WFTP 324 Information Officer S-403**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Advisories: WFT 304 - Advanced Incident Command System I-400  
 This course of study presents the information necessary for the student to be able to function as a information officer in a wildland fire. The course includes news release issues, inquiries from the media, participate in briefings, meetings, special sessions as a member of the incident management team, and prepare and disseminate information internally to personnel on incident and appropriate agency offices. (Pass/No Pass)

### **WFTP 326 Smoke Management Techniques RX-450**

#### **2.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Advisories: WFTP 322 - Advanced Fire Prevention P-340  
 This course of study is for experienced prescribed Fire Managers and Prescribed Fire Behavior Analysts, and presents in detail the legal, professional, and ethical reasons for managing smoke. (Pass/No Pass)

## **Workforce Preparation (Noncredit)**

### **WKPR 7000 Planning Your Next Job/Career**

#### **8.0 hours**

Acceptable for credit: N - Noncredit  
 This course is designed for individuals who wish to explore new approaches to work and career opportunities. Students examine their work histories, identify marketable employment skills, and develop work-related goals. (Noncredit )

### **WKPR 7001 Planning a Job Search**

#### **8.0 hours**

Acceptable for credit: N - Noncredit  
 Prerequisite: TEEN Y  
 In this course, students have an opportunity to plan a job search strategy based on their life and work goals, their strengths, and past experiences. Students construct a resume from the "bottom up" and a systematic campaign for marketing themselves in a competitive job market.

### **WKPR 7002 Impression Management**

#### **8.0 hours**

Acceptable for credit: N - Noncredit

Prerequisite: TEEN Y

In this course, students learn impression management concepts that apply to the workplace and life in general. Emphasis is on managing the interview and the job search process as well as using impression management to accomplish career goals.

### **WKPR 7005 Professional Workplace Skills**

**0.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Learn the skills that are essential to success in the workplace. Professional skills are the qualities, habits, attitudes that make someone a good employee and compatible to work with. It is estimated that 15% of someone's workplace or career success comes from their technical skills and knowledge, while 85% comes from their ability to get along with people. Get these skills so that you can get a job, be promoted, or retain an existing job. (Noncredit )

### **WKPR 7006 Practical Workplace Skills**

**0.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Get the tools you need to find a job, apply for it, and successfully ace the interview. Gain skills to help you keep a job once you secure one, by learning to recognize and solve common workplace problems. Using examples provided by employers, such as issues with quality, quantity, and customer satisfaction, students develop the ability, skills, and knowledge needed to overcome these issues. This class combines education and job skills training to improve your employability. (Noncredit )

### **WKPR 7007 Technical Workplace Skills**

**0.0 - 36.0 hours**

Acceptable for credit: N - Noncredit

Repeatable: 99.00

Technical skills can dazzle and impress a prospective employer. When crafting a resume, these skills—customer service, planning and organization, experience with tools and technology, attention to detail, operational excellence, and sustainable practices and safety—are valued by all employers. Sharpen these job skills in this class so you can confidently list these qualities on your resume. (Noncredit )

### **WKPR 7800 Career Readiness and Planning**

**9.0 - 10.1 hours**

Acceptable for credit: N - Noncredit

Provide adults with disabilities the opportunity to develop work readiness skills and explore vocational interests. This course prepares students for obtaining and maintaining competitive integrated employment through development of career planning, interpersonal, and communication skills. Fundamental technology skills for job search and retention will be provided. This noncredit certificate course is intended to align contemporary work readiness skills with opportunities for employment. Individualized supports from community agencies may facilitate student success. (Fall, Spring, Summer) (Noncredit )

### **WKPR 7801 Functional Work Skills**

**96.0 - 108.0 hours**

Acceptable for credit: N - Noncredit

Provides adults with disabilities the basic academic skills of reading, math and writing with an individualized approach. Basic math skills for time and money management will also be discussed. This is an individualized noncredit course designed to support the basic skills needs of students with disabilities. (Fall, Spring, Summer) (Noncredit )

## **Welding Technology**

### **WLDT 106 Beginning Welding**

**3.0 units**

Acceptable for credit: Transfer CSU

A course in the theory, practice, and application of various metal joining processes, including oxyacetylene welding, brass brazing, flame cutting, and electric arc processes, and an introduction to both Tig and Mig welding. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **WLDT 107 Advanced Welding**

**3.0 units**

Acceptable for credit: Transfer CSU

Prerequisite: WLDT 106 - Beginning Welding

A continuation of WLDT 106, emphasizing position welding of a variety of ferrous metals, using a variety of electrodes used in industries. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **WLDT 189 Independent Projects**

**0.0 units**

Acceptable for credit: Transfer CSU

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade or Pass/No Pass)

### **WLDT 199 Special Topics in Welding Technology**

**0.5 - 3.0 units**

Acceptable for credit:

- (Letter Grade or Pass/No Pass)

### **WLDT 300 Shop Math and Measurement**

**3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 An introduction to the mathematics used in the Industrial Technology programs. Students will learn to solve problems using fractions, decimals, percentage, ratios and basic geometric shapes. Students will learn about the Cartesian coordinate system and how to use a variety of basic and precision measuring tools from rulers and tape measures to calipers and micrometers. This course is not open to students who have received credit for AB 381 or AT 381 or ET 381 or MT 381. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **WLDT 301 Selected Welding Project**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 Projects selected by the student upon the recommendation of any faculty member and developed under the direct counseling and guidance of the instructional staff in the Welding Technology disciplines. All work is completed within the welding facilities under the direct supervision of the responsible instructor. The student will develop the skills necessary to complete the project. (F,S) (Fall, Spring) (Letter Grade or Pass/No Pass)

### **WLDT 305 Welded Sculptural Projects**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 The course is an introduction to fundamentals of conceptualizing sculptural forms and fabricating these forms using shop mechanics and tools. Students will develop skill techniques of cutting, forming, forging, welding and finishing ferrous metal. (Fall, Spring) (Letter Grade or Pass/No Pass)

### **WLDT 306 Layout and Fabrication Interpretation**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 106 - Beginning Welding CR C  
 Enables the student welders to interpret working drawings and shop drawings. Students will sketch fabrication and layout schemes for welding and jigs and/or assembly of small projects. (Letter Grade or Pass/No Pass)

### **WLDT 307 G.M.A.W. Welding**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 106 - Beginning Welding CR C  
 Provides students with the theory and practical applications of gas metallic arc welding (G.M.A.W.), and the operation of gas metal arc welding equipment. (A) (Letter Grade or Pass/No Pass)

### **WLDT 308 T.I.G. Welding**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 106 - Beginning Welding CR C  
 Provides students with the theory and practical applications of gas tungsten arc welding and the operation of gas tungsten arc welding equipment. (A) (Letter Grade or Pass/No Pass)

### **WLDT 309 Mini MIG (GMAW)**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

This course will give students enough MIG welding background to weld in metal sculpture and ornamental iron classes using 110 power MIG welders. (Letter Grade or Pass/No Pass)

### **WLDT 312 Pipe Fitting & Welding**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 107 - Advanced Welding  
 Designed to familiarize students with the highly specialized pipe fitting and welding industry and to provide the opportunity for students to develop the skills necessary for entering and advancing in the pipe welding field. (A) (Letter Grade or Pass/No Pass)

### **WLDT 315 Metal Fabrication**

#### **4.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 107 - Advanced Welding CR C  
 Provides the student with the opportunity to combine previously learned skills into a system requiring the use of prints, tolerances, and specifications. (A) (Letter Grade or Pass/No Pass)

### **WLDT 316 Metal Yard Sculptures**

#### **0.5 units**

Acceptable for credit: D - Credit - Degree Applicable  
 An introduction to craft and art of creating metal yard sculptures. Emphasis is on creative discovery from fabricated primarily non-ferrous metals, found metal objects, and/or commercially available components. (F) (Letter Grade Only)

### **WLDT 317 Ornamental Iron 1**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 Basics of ornamental iron work including fabrication techniques and safety training. (Letter Grade or Pass/No Pass)

### **WLDT 318 Welding and Metal Sculpture**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 This course will provide an introduction to the art of welding. The student will be able to do light gas welding and brazing to construct individual projects. (Fall) (Letter Grade or Pass/No Pass)

### **WLDT 319 Blacksmithing Projects**

#### **1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable  
 An opportunity to use blacksmithing in the fabrication of projects developed and assigned by the instructor. (Fall) (Letter Grade or Pass/No Pass)

### **WLDT 320 Pipe Welding**

#### **3.0 units**

Acceptable for credit: D - Credit - Degree Applicable  
 Prerequisite: WLDT 107 - Advanced Welding  
 An introductory course in the theory and practice of pipe welding designed to provide the student with an opportunity to acquire basic pipe welding skills used in the highly specialized pipe welding industry. (Letter Grade or Pass/No Pass)

**WLDT 330 Welding Certification****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: WLDT 107 - Advanced Welding ; or WLDT 307 -

G.M.A.W. Welding ; or WLDT 308 - T.I.G. Welding

Provides the advanced student with the theory and practical application of welding procedures and techniques in preparation for certification in the following areas: gas metal arc welding or shielded metal arc welding or gas tungsten arc welding. These meet the codes as provided by the American Welding Society, American Petroleum Institute, American Society of Mechanical Engineers Standards. (Letter Grade or Pass/No Pass)

**WLDT 331 Advanced Welding Certification Lab****2.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: WLDT 330 - Welding Certification CR C

Provides the advanced student with the practical application of welding procedures and techniques in preparation for certification in the following areas: gas metal arc welding or shielded metal arc welding or gas tungsten arc welding. These meet the codes as provided by the American Welding Society, American Petroleum Institute, American Society of Mechanical Engineers Standards. (Letter Grade or Pass/No Pass)

**WLDT 333 Welding Certification - SMAW****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

This course is to encourage individuals who are near or at completion of preparation for taking their SMAW Certification test either for employment or the completion of their school program. (Letter Grade or Pass/No Pass)

**WLDT 334 Welding Certification - GMAW****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

This course is to encourage individuals who are near or at completion of preparation for taking their GMAW Certification test either for employment or the completion of their school program. (Letter Grade or Pass/No Pass)

**WLDT 335 Flux Core Arc Welding****1.0 unit**

Acceptable for credit: D - Credit - Degree Applicable

Prerequisite: WLDT 106 - Beginning Welding

Introduces students to craft flux core welding. Topics include types, uses, safety considerations, and fabrication techniques. (Letter Grade or Pass/No Pass)

**WLDT 370 SkillsUSA****3.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered

for this class may not register for AB 370, ARCH 370, AT 370, EL 370, ET 370 or MT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Letter Grade or Pass/No Pass)

**WLDT 389 Independent Projects****0.0 units**

Acceptable for credit: D - Credit - Degree Applicable

Courses for students capable of independent work who demonstrate the need or desire for additional study beyond the regular curriculum. Enrollment allows students to pursue activities such as directed field experience, research, or development of skills and competencies under faculty advisement and supervision. Independent projects may be earned in most disciplines. Students wishing to enroll in Independent Projects should contact the appropriate instructor identified in the class schedule. If the project proposed is acceptable to that instructor, a contract will be developed. All contracts for these classes must be completed and submitted to the Records Office no later than the end of the second week of the semester. Students may enroll for any combination (unit value) of Independent Projects 189 and/or 389 for a total of four semesters in a specific discipline. Units are awarded depending upon satisfactory performance and the amount of time committed by the student to the course. Allowable units vary according to discipline, and are based on the following formula: 1 unit - 48 hours per semester 2 units - 96 hours per semester 3 units - 144 hours per semester (Letter Grade Only)