COURSES

ACADEMIC SKILLS (ACSK)
AG TECHNOLOGY (AGTC)
AMERICAN SIGN LANGUAGE (ASL)
ANTHROPOLOGY (ANTH)
ARCHITECTURE (ARCH)
ART (ART)
ASTRONOMY (ASTR)
AUTOMOTIVE TECHNOLOGY (ATCH)
BIOLOGY (BIO)
BROADCAST COMMUNICATIONS (BCST)
BUSINESS (BUS)
CHEMISTRY (CHEM)
COMMUNICATION STUDIES (COMM)
COMPUTER APPL/OFFICE ADMIN (CAOA)
COMPUTER INFORMATION SYSTEMS (CIS)
COMPUTER AND NETWORKING TECHNOLOGY (CNET)
CONSTRUCTION TECHNOLOGY (CTCH)
COUNSELING (COUN)
CRIMINAL JUSTICE (CJ)
CULINARY ARTS (CUL)
DANCE (DANC)
DRAMA (DRA)
EARLY CHILDHOOD EDUCATION (ECE)
ECONOMICS (ECON)
EDUCATIONAL SERVICES (EDSR)
ELECTRONICS AND ELECTRICAL TECHNOLOGY (EET)
EMERGENCY MEDICAL SERVICES (EMS)
EMERITUS COLLEGE (ECOL)
ENGINEERING (ENGR)
ENGLISH (ENGL)
ENGLISH AS A SECOND LANGUAGE (ESL)
FAMILY STUDIES (FMST)
FASHION DESIGN AND MERCHANDISING (FDM)
FRENCH (FR)
GEOGRAPHY (GEOG)
GEOLOGY (GEOL)
GERMAN (GER)
HEALTH EDUCATION (HEED)
HIGH SCHOOL DIPLOMA (HSD)
HISTORY (HIST)
HOSPITALITY (HOSP)
HUMANITIES (HUMN)
INTERIOR DESIGN (ID)
JOURNALISM (JOUR)
LEADERSHIP (LDER)
LEGAL (LGL)
LIBRARY/INFORMATION TECHNOLOGY (LIBT)
LICENSED VOCATIONAL NURSING (LVN)
MATHEMATICS (MATH)
MEDICAL ASSISTING (MAST)
MUSIC (MUS)
NURSING ASSISTANT (NAST)
NURSING, REGISTERED ASSOCIATE DEGREE (NRAD)
NUTRITION (NUTR)
ONLINE (DIST)
PARALEGAL (PLGL)
PHILOSOPHY (PHIL)
PHYSICAL EDUCATION ADAPTED (PEAD)
PHYSICAL EDUCATION ACTIVITY (PEAC)
PHYSICAL EDUCATION ATHLETICS (PEAT)
PHYSICAL EDUCATION THEORY (PETH)
PHYSICAL SCIENCE (PSCI)
PHYSICS (PHYS)
POLITICAL SCIENCE (POLS)
PSYCHIATRIC TECHNICIAN (PSYT)
PSYCHOLOGY (PSYC)
REAL ESTATE (RE)
RECREATION ADMINISTRATION (REC)
SOCIOLOGY (SOC)
SPANISH (SPAN)
VOCATIONAL ESL (VESL)
WELDING (WELD)
WELLNESS (WELL)
WORK EXPERIENCE (WEXP)
ACADEMIC SKILLS [ACSK]

001 COMPUTER ACCESS EVALUATION (0.5)
(Formerly ACSK 101)
0.5 hours lecture per week
Associate Degree Non-Applicable
Provides a diagnostic evaluation to determine whether the student possesses the necessary skills to benefit from participation in the Assistive Technology Center for the Disabled. Evaluation areas include cognitive processing abilities, keyboard access, general mobility and seating, educational or vocational goals.

004 ADAPTED STUDIES: LECTURE (2.0 to 1.0)
(Formerly ACSK 104)
2.0 hours lecture per week
Associate Degree Non-Applicable
Introduces the use of microcomputer access technologies for students with physical or learning disabilities. Designed for students with verified disabilities. Advisory: Ability to type 20 words per minute (depending upon nature of disability).

005 ACADEMIC SUPPORT LABORATORY (1.0 to 0.5)
(Formerly ACSK 5)
3.0 hours laboratory per week
Associate Degree Non-Applicable
Provides curricula and instruction, not available in other courses in a lecture format, to meet identified special learning needs of disabled students. May include advanced training in comprehension, phonetics, computer-assisted instruction, or other specialized topics. An appointment with a Disabled Student Programs and Services faculty member prior to enrollment is strongly advised. Repeatable 3 times.

007 ADAPTED STUDIES: LABORATORY (1.0 to 0.5)
(Formerly ACSK 107)
3.0 hours laboratory per week
Associate Degree Non-Applicable
Presents the use of computer access technologies for students with physical and/or learning disabilities within the context of word processing, database, and spreadsheet programs. Designed for students with verified disabilities. Students will also learn about the components that make up a personal computer and relevant information which will enable them to create an ideal computer system for themselves. Repeatable 1 time.

010 KEYBOARDING FOR COMPUTER ACCESS (1.0 to 0.5)
(Formerly ACSK 110)
3.0 hours laboratory per week
Associate Degree Non-Applicable
Provides keyboarding basics to students with disabilities. Incorporates adaptive technologies into the context of computer tutorials. Repeatable 1 time.

013 COMPUTER ACCESS: ADAPTED WORD PROCESSING (1.0)
(Formerly ACSK 113)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Advisory: Ability to type 15 words per minute. Presents a 9-week basic word processing course. Emphasizes assistive hardware and software (speech synthesizers, screen enlargers, spell-checkers, keyboard alternatives) and beginning word processing skills (editing, saving, printing, formatting, file management). Designed for students with verified disabilities. Repeatable 1 time.

019 INTRODUCTION TO COMPUTERS USING ASSISTIVE TECHNOLOGY (3.0)
(Formerly ACSK 119)
3.0 hours lecture per week
Associate Degree Non-Applicable
An introduction to computers designed for students with disabilities. Discusses the history of the personal computer as well as how it relates to students with disabilities. Students will also learn about the components that make up a personal computer and relevant information which will enable them to create an ideal computer system for themselves. Repeatable 3 times.

022 INTRODUCTION TO THE INTERNET USING ASSISTIVE TECHNOLOGY (3.0)
(Formerly ACSK 122)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Non-Applicable
An introduction to the Internet designed for students with disabilities. Discusses the Internet as well as how it relates to students with disabilities. Students will also learn about the components that make up the Internet and relevant information, which will allow them to search on the Internet with the latest search engines. New technologies affecting the Internet will also be discussed and used in context to the educational setting. Repeatable 3 times.

025 COMPUTER ACCESS: ADAPTED WORD PROCESSING I (2.0)
(Formerly ACSK 125)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Advisory: Ability to type 20 words per minute (depending upon nature of disability). Introduces the use of microcomputer access technologies for students with physical or learning disabilities within the context of word processing. Repeatable 1 time.

028 COMPUTER ACCESS: WORD PROCESSING II (1.0 to 0.5)
(Formerly ACSK 128)
3.0 hours laboratory per week
Associate Degree Non-Applicable
Advisory: ACSK 025 or equivalent.
Continues ACSK 025. Enhances the student’s skills through the completion of assignments or projects. Repeatable 3 times.

030A INTRO PHONETIC FOUNDATIONS FOR READING AND SPELLING (3.5)
(Formerly ACSK 30A)
4.5 hours per week: (2.0 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Develops an awareness of sound identity and sequence in words. Promotes the ability to use single-syllable word attack generalizations and introduces multi-syllable concepts. Features multi-sensory and discovery learning. Designed for students with learning disabilities. Contact the instructor as soon as you enroll to schedule the required 1.5 weekly lab hours.

030B ADVANCED PHONETIC FOUNDATIONS FOR READING AND SPELLING (3.5)
(Formerly ACSK 30B)
4.5 hours per week: (3.0 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Continues to develop phonemic awareness and self-correction skills. Teaches multi-syllable word attack generalizations, prefixes, suffixes, and strategies for visual memory and proofreading. Continues to use multi-sensory and discovery learning. Contact the instructor as soon as you enroll to schedule the required 1.5 weekly lab hours.

031 COMPUTER ACCESS: APPLICATIONS (2.0)
(Formerly ACSK 131)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Advisory: MATH 003, ENGL 099, Ability to type 15 words per minute. Presents the use of computer access technologies for students with physical and/or learning disabilities within the context of word processing, database, and spreadsheet programs. Designed for students with verified disabilities. Repeatable 1 time.
Offered as a prerequisite to the basic English writing course for students who do including students with learning disabilities and speakers of other languages. Written language development of students with diverse needs and backgrounds, practice, multi-sensory instruction, and individualized assistance to promote the skills students need to succeed in basic English courses. Provides intensive Focuses on the grammar, punctuation, sentence writing, and paragraph writing a Second Language (ESL) sequence is highly recommended. Advisory: For speakers of languages other than English, completion of the English as Associate Degree Non-Applicable
Provides an opportunity for an in-depth study or a practicum experience by an (Formerly ACSK 75)
4.0 hours lecture per week
Associate Degree Non-Applicable
Provides a basic arithmetic and math study skills course for students who have a history of difficulties in mathematics. This course uses alternative and active approaches for learning the concepts and skills of place value, basic operations, fractions, decimals, percentages, word problems, learning styles, and math study strategies.
099 NON-CREDIT SUPERVISED TUTORING (Formerly ACSK 99)
4.0 hours laboratory per week
Prerequisite: Enrollment in a Cuesta College credit course and referral by a counselor and/or instructor.
Provides non-credit basic skills and all other content area courses supervised tutoring for students one-to-one and in small groups. Includes assessment of study skills, exam reviews and study sessions. Repeatable.
110 TEST PREPARATION: OCCUPATIONAL (Formerly ACSK 10)
6.0 hours lecture per week
Associate Degree Applicable
Prepares prospective employees to successfully take the necessary placement test or qualifying examination to apply for employment in a variety of occupations, such as the psychiatric technician placement test and the civil service examination. The specific content, skills, knowledge, and the most appropriate test-taking approaches will be included to build confidence, and reduce uncertainty, confusion, and test anxiety. The goal is to maximize each individual's potential to achieve the highest possible score on the placement test or qualifying examination. Repeatable 1 time.
115 ADJUNCT STUDY SKILLS (Formerly ACSK 15)
1.5 hours laboratory per week
Associate Degree Applicable
Learn, practice, and apply time management, textbook reading, critical thinking, note taking, and test taking skills to specific content courses through combining small group collaborative instruction and individualized lab modules covering study skills appropriate to various content courses. Repeatable 3 times.
120 LEARNING ESSENTIALS FOR COLLEGE SURVIVAL (Formerly ACSK 20)
3.0 hours lecture per week
Associate Degree Applicable
Presents essential study methods that promote college success. Including, but not limited to: managing and maximizing learning and study time; critical thinking; levels of comprehension; understanding textbooks and other written material; active listening and notetaking strategies; test preparation: synthesizing and reviewing course content; test taking strategies; and campus resources.
121  STRATEGIC TEXTBOOK STUDY  
0.5 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Enhances effective reading strategies necessary for comprehension and retention of college textbook information. Focuses on self-regulating learning strategies for metacognition, active reading, note-taking, rate flexibility, vocabulary development, and inferential and critical reading.

168  TUTOR TRAINING: SELECTED TOPICS  
(Formerly ACSK 168)  
1.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Provides specialized information and guided practice in designated topics or projects. Tutors gain expertise in subject areas not offered in other tutor training courses. An appointment with the Tutorial Services Coordinator prior to enrollment is strongly advised.

193  ACADEMIC SKILLS SPECIAL TOPIC  
(Formerly ACSK 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

217  SUPPLEMENTAL INSTRUCTION  
(Formerly ACSK 17)  
3.0 hours laboratory per week  
Associate Degree Applicable  
Corequisite: Enrollment in the targeted discipline course.  
Integrate "how to learn" while focusing on "what to learn" in the targeted, historically high-risk, discipline courses. Students meet weekly with a Supplemental Instruction LDER for structured study: applying appropriate academic study strategies, reviewing, preparing for exams, sharpening critical thinking, comparing notes, and clarifying lecture/text concepts. Regular attendance and participation are required. Repeatable 3 times. Transfer: CSU.

225  COLLEGE SUCCESS  
(Formerly ACSK 25)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
A comprehensive course that integrates personal growth and values, academic study strategies, and critical and creative thinking proficiency. This survey course focuses on life management, learning styles, personal and educational values, time management, instructor-student relations, maintaining health, memory and concentration, lecture note-taking, textbook studying, subject-specific studying, test taking, using the library, critical analysis, problem solving, and creative thinking. Emphasis is on the attainment of life-long success in academic, professional and personal development. Transfer: CSU; UC (For maximum credit of one course between ACSK 225 and PETH 210).

227  TEST AND PERFORMANCE ANXIETY  
(Formerly ACSK 27)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Explores the relationship between the physiological, psychological, and emotional responses to test and performance anxiety. Course investigates the theories of stress and anxiety and offers guided practice in the cognitive, meditative, and biofeedback-aided techniques to manage anxiety while taking a test, succeeding in math, giving a speech, and/or competing in a sports event. Transfer: CSU.

247  INDEPENDENT STUDIES: ACADEMIC SKILLS  
(Formerly ACSK 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken. Advisory: Eligibility for ENGL 156.  
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of tutor training or disability research. Repeatable 3 times. Transfer: CSU.

500  GED TEST PREPARATION  
3.0 hours laboratory per week  
Designed to prepare students in basic skills, including the five areas of the GED examination: Mathematics, Science, Social Studies, Language Arts-Writing I and II, and Language Arts-Reading. Material is presented through a variety of methods, including teacher-led, computer-assisted and individualized instruction as well as working at problem. Repeatable.

ADAPTED PHYSICAL ED. (PEAD)

200  ADAPTED AQUATICS  
(Formerly PEADPT 100)  
3.0 hours laboratory per week  
Associate Degree Applicable  
Provides an individualized aquatic exercise program for students with a disability. Improves flexibility, strength, and endurance using the water as a source of buoyancy and resistance. An appointment with a Disabled Student Programs and Services faculty member prior to enrollment is strongly advised. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

205  ADAPTED FITNESS: WEIGHT TRAINING  
(Formerly PEADPT 105)  
3.0 hours laboratory per week  
Associate Degree Applicable  
Provides an individualized fitness program for students with a disability using resistive exercises and equipment. An appointment with a Disabled Student Programs and Services faculty member prior to enrollment is strongly advised. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

AG TECHNOLOGY (AGTC)

105  VINEYARD PRUNING  
(Formerly AGTECH 5)  
9.0 hours lecture per week  
Associate Degree Applicable  
Presents theory and field practice of pruning head, cane, and cordon vines. Includes training of young and mature vines.

110  PROPAGATION TECHNIQUES  
(Formerly AGTECH 10)  
9.0 hours lecture per week  
Associate Degree Applicable  
Presents rootstock and “T” budding of older vines to change varieties. Examines pros and cons of various propagation techniques used in vineyards. Covers care of vines following budding.

115  VINEYARD IRRIGATION AND FERTILIZATION  
(Formerly AGTECH 15)  
6.0 hours lecture per week  
Associate Degree Applicable  
Studies rootstocks and phylloxera concerns, water and nutrition needs, water application techniques, irrigation and fertilizer injection systems.
120  VINEYARD CANOPY MANAGEMENT
(Formerly AGTECH 20)
9.0 hours lecture per week
Associate Degree Applicable
Studies the latest techniques in developing trellis systems to improve both grape and wine quality.

130  BASIC VITICULTURE
(Formerly AGTECH 30)
3.0 hours lecture per week
Associate Degree Applicable
Basic principles of plant growth, physiology, and anatomy as they pertain to grapevines. Fundamentals of irrigation, fertilization, and pest management will be discussed.

135  PEST CONTROL MANAGEMENT UPDATE
(Formerly AGTECH 35)
9.0 hours lecture per week
Associate Degree Applicable
Presents lectures in entomology and related subjects in pest control management. Also provides update training for persons with a pest control license. Repeatable 3 times.

140  SOIL FERTILITY AND QUALITY IN CENTRAL COAST VITICULTURE
(Formerly AGTECH 40)
9.0 hours lecture per week
Associate Degree Applicable
Presents basic soil science and soil quality issues needed in growing wine grapes in the Central Coast wine growing region. The focus is on soil textures, soil fertility, soil quality and estimating the available water holding capacities. Soil profiles and other essential soil properties will be investigated by using backhoe pits.

147  INDEPENDENT STUDIES: AGRICULTURE
(Formerly AGTECH 47)
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of agriculture under direction of an instructor. Repeatable 1 time.

193A  SOIL FERTILITY AND QUALITY IN CENTRAL COAST VITICULTURE
(Formerly AGTECH 93A)
4.5 hours lecture per week
Associate Degree Applicable
Includes discussion of career opportunities in agriculture, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the agriculture industry. Repeatable 2 times.

193A ASL DAILY CONVERSATION
(Formerly ASL 15A)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ASL 215A with a grade of C or better
Introduces expressive and receptive skills used in American Sign Language (ASL) through vocabulary development, grammar, non-manual behaviors, and finger spelling. Provides exposure to Deaf Culture by reviewing the history of ASL, dynamics of the Deaf Community, varieties of manual communication, Deaf President Now protest, and cultural customs of communication.
Transfer: CSU; UC.

215A BEGINNING AMERICAN SIGN LANGUAGE
(Formerly ASL 15B)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ASL 215A with a grade of C or better
Presents a continuation of SL 15A with a functional-notional approach to language acquisition; expands expressive and receptive skills through vocabulary development, grammar, non-manual behaviors and fingerspelling. Continues exposure to Deaf Culture through awareness of cross-cultural communications; history of the Deaf in America and customs of the Deaf community.
Transfer: CSU; UC.

215B AMERICAN SIGN LANGUAGE II
(Formerly ASL 15C)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ASL 215B with a grade of C or better or equivalent
Continues skills presented in SL 15B. Emphasizes fluency in communicating with the deaf as practiced in a variety of situational contexts. Explores creative uses of American Sign Language.
Transfer: CSU; UC.

215C AMERICAN SIGN LANGUAGE III
(Formerly ASL 15D)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ASL 215C with a grade of C or better or equivalent
Presents a functional-notional approach to language acquisition, emphasizing an increased fluency in expressive and receptive skills through vocabulary development, grammar, non-manual behaviors, fingerspelling and contact with the Deaf community. Story-telling skills, creative uses of ASL, exposure to Deaf Culture through awareness of cross-cultural communications; knowledge of the history of the Deaf in America and customs of the Deaf community are expanded.
Transfer: CSU; UC.

215D AMERICAN SIGN LANGUAGE IV
(Formerly ASL 15E)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ASL 215D with a grade of C or better, or the equivalent
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of American Sign Language under the direction of an instructor.
Repeatable 3 times.

201  PHYSICAL ANTHROPOLOGY
(Formerly ANTH 1)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156
Presents an introduction to the science of physical anthropology. Topics include: the fields of anthropology, the scientific method, evolutionary theory, genetics and inheritance, human variation, biology and behavior of living primates, and the fossil evidence of human evolution.
Transfer: CSU; UC.
COURSES

201L PHYSICAL ANTHROPOLOGY LABORATORY (1.0)
(Formerly ANTH 11)
3.0 hours laboratory per week
Associate Degree Applicable
Corequisite: ANTH 201
Utilizes the hands-on laboratory approach in studying primatology, osteology, dentition, genetics and human variation. Both fossil and contemporary will be studied.
Transfer: CSU; UC.

202 ARCHAEOLOGY (3.0)
(Formerly ANTH 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Provides an introduction to archaeological theory and concepts, as well as an overview of both New and Old World archaeology.
Transfer: CSU; UC.

203 CULTURAL ANTHROPOLOGY (3.0)
(Formerly ANTH 3)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Provides an introduction to the concepts of cultural anthropology, different perspectives for the study of culture and their application. Primitive cultures are studied both as they existed before contact with Western civilization and as they are today.
Transfer: CSU; UC.

220 CALIFORNIA INDIANS (3.0)
(Formerly ANTH 20)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Presents a history of the California Indians, including their prehistory, the Indians at the time of European contact, the Spanish period, the early Anglo-American period, and the Indians today.
Transfer: CSU; UC.

221 NORTH AMERICAN INDIANS (3.0)
(Formerly ANTH 21)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Studies the North American Indians, including their lifestyle at the time of contact, their reactions to European contact, and the Indians at present.
Transfer: CSU; UC.

225 CONTEMPORARY CULTURES OF THE WORLD (3.0)
(Formerly ANTH 25)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Studies the ways of life of people in different regions of the world, including Latin America, Middle East, East Asia, and Africa. Beliefs, values, and other social characteristics such as family, economics, and religion will be studied.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: ANTHROPOLOGY (2.0 to 0.5)
(Formerly ANTH 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of anthropology under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU; UC.

ARCHITECTURE [ARCH]

193 ARCHITECTURE SPECIAL TOPIC (4.0 to 0.5)
(Formerly ARCH 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

195 TECHNICAL CAREER PREPARATION IN ARCHITECTURE (1.0)
(Formerly ARCH 95)
1.0 hours lecture per week
Associate Degree Applicable
Overview of architectural careers with focus on preparing for the job market. Includes discussion of career opportunities in architecture, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the architectural industry.
Repeatable 2 times.

201 INTRODUCTION TO ARCHITECTURE AND ENVIRONMENTAL DESIGN (2.0)
(Formerly ARCH 101)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces a critical framework for regarding buildings as works of architecture. Explores the nature of the architectural profession and how it relates to other environmental design fields, such as city and regional planning, urban design, and landscape architecture. Examines how building and environmental design professions are responding to the profound challenges of living sustainability in the 21st century. This course is intended for the student intending to transfer to a university major in architecture or a related environmental design discipline.
Transfer: CSU; UC. (For UC, maximum credit of 18 units between ARCH 201, 213, 221, 222, 251 and 252).

205 ARCHITECTURAL MODEL MAKING (2.0)
(Formerly ARCH 115)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ARCH 221 and CTCH 250
Advisory: Completion of or concurrent enrollment in ARCH 222, ARCH 231, or high school drafting.
Introduces basic concepts and creation of 3D scaled material architectural models for visual representation and communication of architectural design.
Repeatable 3 times.
Transfer: CSU.

213 ARCHITECTURAL PORTFOLIO PRESENTATION (2.0)
(Formerly ARCH 113)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ARCH 222
Advisory: Concurrent enrollment in ARCH 252.
Prepares students with skills and resources needed to present work in a consistent and unified portfolio for job procurement and transfer credit. This studio based design course focuses on the development of a professional architectural portfolio representing student architectural design, model making and visual communication skills.
Transfer: CSU; UC. (For UC, maximum credit of 18 units between ARCH 201, 213, 221, 222, 251 and 252).

221 DESIGN AND VISUAL COMMUNICATION I (4.0)
(Formerly ARCH 111)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Presents principles, concepts, methods and skills pertaining to freehand and drafting drawings employing orthographic, axonometric, oblique and lineal perspective drawing systems to represent ideas, objects and environments. Includes principles and concepts of two- and three-dimensional visual design. Covers
### COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per Week</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>222</td>
<td>DESIGN AND VISUAL COMMUNICATION II</td>
<td>4.0</td>
<td>8</td>
<td>2.0 lecture, 6.0 laboratory</td>
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<td>(Formerly ARCH 112)</td>
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<td>8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td>Prerequisite: ARCH 221 and Completion of or concurrent enrollment in ARCH 232</td>
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<td>Continuation and extension of the content and issues introduced in ARCH 221, plus the principles, concepts, methods and skills pertaining to the freehand, drafted and digital visualization and communication of quantitative and qualitative information to support analysis and conceptualization.</td>
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<td>Transfer: CSU.</td>
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<td>230</td>
<td>ARCHITECTURAL COMPUTER AIDED DRAFTING AND DESIGN</td>
<td>3.0</td>
<td>5</td>
<td>2.0 lecture, 3.0 laboratory</td>
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<td>(Formerly ARCH 110)</td>
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<td>5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td>Advisory: ARCH 231 and ENGR 125</td>
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<td>Introduces the use of computer aided drafting and design software as a tool for generating construction drawings, 3D modeling and design presentations. This course provides an introduction to the use of Architectural Desktop and 3D Studio VIS as it applies to architectural practice.</td>
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<td></td>
<td>Transfer: CSU.</td>
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<tr>
<td>232</td>
<td>ARCHITECTURAL DESIGN &amp; PRESENTATION COMPUTER GRAPHICS</td>
<td>3.0</td>
<td>5</td>
<td>2.0 lecture, 3.0 laboratory</td>
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<td></td>
<td>(Formerly ARCH 110)</td>
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<td></td>
<td>5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td></td>
<td>Advisory: CIS 210 or equivalent.</td>
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<td></td>
<td>Prerequisite: ARCH 221</td>
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<td></td>
<td>Introduces computer design and presentation skills for architecture students including image editing, page layout, and 3D modeling.</td>
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<td>Transfer: CSU.</td>
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<tr>
<td>242</td>
<td>INTRODUCTION TO ARCHITECTURAL PRACTICE</td>
<td>3.0</td>
<td>5</td>
<td>2.0 lecture, 3.0 laboratory</td>
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<tr>
<td></td>
<td>(Formerly ARCH 231)</td>
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<td></td>
<td>5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: CTCH 250, ARCH 221, and completion of or concurrent enrollment in ARCH 230.</td>
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<td>Introduces the concepts and methods associated with the use and application of construction systems, processes and materials. Emphasis is placed on the standards and conventions used to detail and document light framed construction.</td>
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<td>Transfer: CSU.</td>
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<tr>
<td>244</td>
<td>ARCHITECTURAL ENVIRONMENT CONTROL SYSTEMS</td>
<td>3.0</td>
<td>5</td>
<td>2.0 lecture, 3.0 laboratory</td>
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<tr>
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<td>(Formerly ARCH 207)</td>
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<td>5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: PHYS 205B</td>
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<td>Advisory: Completion of or concurrent enrollment in ARCH 252.</td>
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<td>Introduces the theory and application of climate, energy use and comfort as determinates of architectural form. Includes architectural methods of ventilating, cooling, heating, and lighting for envelope-load dominated buildings. Acceptable for credit, CSU, (credit based on portfolio review).</td>
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<td></td>
<td>Transfer: CSU.</td>
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<tr>
<td>245</td>
<td>INTRODUCTION TO GREEN BUILDING AND LEED GREEN ASSOCIATE CREDENTIAL PREPARATION</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5 lecture per week</td>
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<td>(Formerly ARCH 220)</td>
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<td></td>
<td>1.5 hours lecture per week</td>
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<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: ARCH 244 or CTCH 250 or ID 276 or equivalent professional</td>
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<td>Explores the environmental impacts of the built environment, principals of green building design and construction, available rating/certification systems for green building, with an in-depth review of the LEED Rating Systems and their applications, specifically the LEED Building Design and Construction (BD&amp;C) Rating System. At the completion of the course, a review will be completed to support preparation to apply for the LEED Green Associate Credential Exam.</td>
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<td>Transfer: CSU.</td>
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<tr>
<td>246</td>
<td>GREEN BUILDING AND LEED AP BD+C EXPERIENCE</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5 lecture per week</td>
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<tr>
<td></td>
<td>(Formerly ARCH 193A)</td>
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<td></td>
<td>1.5 hours lecture per week</td>
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<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: ARCH 245 and LEED Green Associate Credential Prep, or equivalent professional experience</td>
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<td>Explores the environmental impacts of the built environment, principals of green building design and construction, available rating/certification systems for green building, with an in-depth review and exploration of the LEED Rating Systems and their applications, specifically the LEED Building Design and Construction (BD&amp;C) Rating System. The course will be primarily focused on the partial documentation/certification of a project pursuing LEED Certification. At the completion of the course, a review will be completed to support preparation to apply for the LEED AP BD+C Credential Exam.</td>
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<td></td>
<td>Transfer: CSU.</td>
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<tr>
<td>247</td>
<td>INDEPENDENT STUDIES: ARCHITECTURE</td>
<td>2.0 to 0.5</td>
<td>5.0</td>
<td>3.0 lecture, 6.0 laboratory</td>
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<tr>
<td></td>
<td>(Formerly ARCH 47)</td>
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<td></td>
<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.</td>
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<td>Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of architecture under direction of an instructor.</td>
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<td></td>
<td>Repeatable 4 times.</td>
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<td>Transfer: CSU.</td>
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<tr>
<td>248</td>
<td>GREEN BUILDING AND LEED AP HOMES EXPERIENCES</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5 lecture per week</td>
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<td>(Formerly ARCH 193A)</td>
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<td>1.5 hours lecture per week</td>
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<td>Associate Degree Applicable</td>
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<td>Prerequisite: ARCH 245 and LEED Green Associate Credential Prep, or equivalent professional experience</td>
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<td>Explores the environmental impacts of the built environment, principals of green building design and construction, available rating/certification systems for green building, with an in-depth review and exploration of the LEED Rating Systems and their applications, specifically the LEED for Homes Rating System. The course will be primarily focused on the partial documentation/certification of a project pursuing LEED Certification. At the completion of the course, a review will be completed to support preparation to apply for the LEED for Homes Credential Exam.</td>
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<td>Transfer: CSU.</td>
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<tr>
<td>251</td>
<td>ARCHITECTURAL DESIGN FUNDAMENTALS I</td>
<td>5.0</td>
<td>9</td>
<td>3.0 lecture, 6.0 laboratory</td>
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<td>(Formerly ARCH 251)</td>
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<td></td>
<td>9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)</td>
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<td>Associate Degree Applicable</td>
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<td>Prerequisite: ARCH 222</td>
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<td>Presents theories, principles, methods and means of creative problem solving, two- and three-dimensional visual organizations to communicate concepts and meanings, basic verbal and visual communication skills, analysis of the built environment with emphasis on the creation and interrelationship of architectural form, function and light.</td>
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<td>Transfer: CSU; UC.</td>
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<td></td>
<td>(For UC, maximum credit of 18 units between ARCH 201, 213, 221, 222, 251 and 252).</td>
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<tr>
<td>252</td>
<td>ARCHITECTURAL DESIGN FUNDAMENTALS II</td>
<td>5.0</td>
<td>9</td>
<td>3.0 lecture, 6.0 laboratory</td>
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<td>(Formerly ARCH 252)</td>
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<td></td>
<td>9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)</td>
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<td></td>
<td>Associate Degree Applicable</td>
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<td></td>
<td>Prerequisite: ARCH 251</td>
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</tbody>
</table>
254  ADVANCED ARCHITECTURAL GRAPHIC COMMUNICATION  
(Formerly ARCH 254)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: ARCH 221 and ARCH 222  
Advisory: ARCH 251.  
Presents advanced architectural presentation drawing and graphic communication skills with emphasis on representing quantitative and qualitative information, ideas, and concepts with freehand sketching and drawing techniques. Includes abstract diagramming, the use of color and the design of two-dimensional graphic communications with direct application in a community design charette.  
Repeatable 3 times.  
Transfer: CSU.

ART [ART]  

193  ART SPECIAL TOPIC  
(4.0 to 0.5)  
(Formerly ART 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

200  ART APPRECIATION  
(Formerly ART 100)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Introduces the form, content, and media of the visual arts. Overview of artistic methods, materials, and language, exploring cultural and historical significance.  
Transfer: CSU; UC.

202  MUSEUM PRACTICES  
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Introduces the history, functions, and professional practices of art museums. Includes development of an historical display and accompanying texts for exhibition. Introduces curatorial and art critical writing, including writing art reviews for publication.  
Repeatable 1 time.  
Transfer: CSU.

203  SURVEY OF ART HISTORY: OLD STONE AGE THROUGH GOTHIC  
(Formerly ART 103)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Presents the first of a three-semester course in the history of Western art. Includes cultural and historical background of Prehistoric (Paleo-lithic and Neolithic periods), Ancient Near Eastern, Egyptian, Aegean, Greek, Roman, and Medieval art traditions. Discusses and compares the cultural background of each of these artistic traditions.  
Transfer: CSU; UC.

204  SURVEY OF ART HISTORY: RENAISSANCE THROUGH 19TH CENTURY  
(3.0)  
(Formerly ART 104)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Presents the second of a three-semester course in the history of Western art. Includes cultural and historical background of the Renaissance, Baroque, Rococo, Neo-Classic, Romantic, Realist, Impressionist, and Post-Impressionist periods of art.  
Transfer: CSU; UC.

205  SURVEY OF ART HISTORY: MODERNISM AND POST-MODERNISM  
(3.0)  
(Formerly ART 105)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Presents an overview of the art movements, artists and issues of Modernism and Post-Modernism. This includes art from the mid-nineteenth century, through the twentieth century and contemporary art. Includes the social, political, and aesthetic context of the time.  
Transfer: CSU; UC.

206  SURVEY OF ART HISTORY: NON-WESTERN ART  
(3.0)  
(Formerly ART 106)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Surveys the art traditions of African, Asian, Native American, Pre-Columbian, and other non-Western cultures as expressions of their religions and philosophies. Compares non-Western to Western art to reveal cross-cultural influences and explains the diversity of 20th century art.  
Transfer: CSU; UC.

219  ART ISSUES SEMINAR  
(1.0)  
(Formerly ART 119)  
1.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Presents lectures and discussions concerning a specific topic in contemporary or historical art issues or theory. Provides the opportunity for an in-depth study and analysis of individual artists, art works, movements and contemporary trends in art making and criticism.  
Repeatable 2 times.  
Transfer: CSU.

220  FUNDAMENTALS OF 2-D DESIGN  
(3.0)  
(Formerly ART 120)  
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)  
Associate Degree Applicable  
Introduces the basic design elements and principles common to all visual art forms. Provides studio experience in the practical application of design and color theory through creative assignments.  
Transfer: CSU; UC.

221  BEGINNING DRAWING  
(3.0 to 2.0)  
(Formerly ART 121)  
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)  
Associate Degree Applicable  
Prepares students to draw traditional representational images. Fundamentals of drawing, including line, shape, shading, and the use of visual expression and communication.  
Transfer: CSU; UC.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Repeatable Times</th>
<th>Transfer: CSU; UC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>222</td>
<td>INTERMEDIATE DRAWING</td>
<td>3.0</td>
<td>Introduces basic painting techniques, methods, materials and language, including color mixing, brushwork, and composition.</td>
<td>ART 220 and ART 221</td>
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<tr>
<td>223</td>
<td>LIFE DRAWING</td>
<td>3.0</td>
<td>Presents the fundamentals of anatomy and representation of the human form in various attitudes and movements. The skeleton and live models will be used.</td>
<td>ART 222</td>
<td>2</td>
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<tr>
<td>224</td>
<td>INTERMEDIATE LIFE DRAWING</td>
<td>3.0</td>
<td>Presents the physical nature of color and the theory of color. Studio projects explore primary systems, color properties, interaction, strategies and expressive qualities of color. Investigates the physiological, psychological, symbolic, and cultural aspects of color.</td>
<td>ART 229</td>
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<tr>
<td>230</td>
<td>BEGINNING PAINTING</td>
<td>3.0</td>
<td>Introduces basic painting techniques, methods, materials and language, including color mixing, brushwork, and composition.</td>
<td>ART 220 and ART 221</td>
<td>1</td>
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<tr>
<td>231</td>
<td>INTERMEDIATE PAINTING</td>
<td>3.0</td>
<td>Presents a continuation of ART 230 with an emphasis on contemporary issues in painting. Composition and content is also stressed.</td>
<td>ART 230</td>
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<tr>
<td>232</td>
<td>WATERCOLOR PAINTING</td>
<td>3.0</td>
<td>Explores the fundamental techniques and creative use of aqueous media in painting on paper.</td>
<td>ART 220 and ART 221</td>
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<tr>
<td>233</td>
<td>INTERMEDIATE WATERCOLOR PAINTING</td>
<td>3.0</td>
<td>Continues ART 232 with an emphasis on problem-solving, composition and development of personal style.</td>
<td>ART 232</td>
<td>2</td>
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<tr>
<td>234</td>
<td>FIGURE PAINTING</td>
<td>3.0</td>
<td>Introduces the fundamentals of painting from the human figure, the creative use of various painting media, and the figure in context.</td>
<td>ART 232</td>
<td>3</td>
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<tr>
<td>235</td>
<td>MURAL PAINTING</td>
<td>3.0</td>
<td>Presents an investigation of the book form as a vehicle of creative expression. Explores the book structure through the history, concepts and the creative application of this unique art object, in which the content is not limited to words alone.</td>
<td>ART 220</td>
<td>1</td>
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<tr>
<td>236</td>
<td>BOOK ARTS</td>
<td>3.0</td>
<td>Introduces a variety of print media including traditional historical printmaking practices such as relief, etching, and stencil. Includes contemporary print media such as photocopy, offset lithography, computer generated images and artists’ books. Presents the art of printmaking in an historical and contemporary context.</td>
<td>ART 220</td>
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<tr>
<td>240</td>
<td>INTRODUCTION TO PRINT MEDIA</td>
<td>3.0</td>
<td>Offers instruction and studio practice in etching and related intaglio printmaking techniques as well as the designing of images appropriate to these techniques.</td>
<td>ART 221</td>
<td>2</td>
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<tr>
<td>243</td>
<td>COLOR</td>
<td>3.0</td>
<td>Presents the design of images appropriate to these techniques.</td>
<td>ART 220</td>
<td>2</td>
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</tbody>
</table>
244 PHOTOGRAPHY (3.0 to 2.0)
(Formerly ART 144)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces black and white still photography as a fine art in an historical and
contemporary context. Presents traditional darkroom practices through projects
that introduce the elements and principles of design. Emphasizes use and care
of 35mm cameras, related photography equipment, black and white film pro-
cessing and photographic enlargements. NOTE: A 35mm camera is required
for class.
Transfer: CSU; UC.

245 INTERMEDIATE PHOTOGRAPHY (3.0 to 2.0)
(Formerly ART 145)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 244
Continues study of photography as a fine art as introduced in ART 244. Pres-
ents intermediate level concepts and darkroom techniques in black and white
still photography. The development of photography as a means of personal
expression, the infusion of content, and composition will be stressed.
Repeatable 3 times.
Transfer: CSU; UC.

247 DIGITAL VIDEO EDITING (3.0)
(Formerly ART 147)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 148
Presents primary instruction in digital non-linear video editing, including acquis-
ing of digital video and combining and editing source material to create complete
digital movies. Topics include: basic editing techniques, cuts and transitions,
adding and altering audio, titling, keying and transparency, and applying filters
and effects.
Repeatable 3 times.
Transfer: CSU; UC.

248 DIGITAL VIDEO EFFECTS (3.0)
(Formerly ART 148)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 253
Introduces concepts and technical fundamentals of digital photography as an
extension to traditional photography. Presents practices and techniques unique
to digital photography through projects that emphasize personal expression, the
infusion of content and composition. Emphasizes the practical and aesthetic
issues of digital photography, care and use of digital cameras, and other equip-
ment related to digital photography.
Repeatable 3 times.
Transfer: CSU.

249 DIGITAL PHOTOGRAPHY (3.0)
(Formerly ART 149)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 244 and ART 256
Presents the art and science of digital compositing for visual effects and 2D ani-
mation, utilizing Adobe After Effects for film and video applications. Explores
technical and aesthetic issues.
Repeatable 3 times.
Transfer: CSU; UC.

251 ALTERNATIVE PHOTOGRAPHIC PROCESSES (3.0)
(Formerly ART 145)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 244
Introduces alternative photographic techniques emphasizing experimental manipula-
tion of the photographic image. Introduces silver and non-silver alternative
photographic techniques including multiple image usage, high contrast materi-
als, toning, image transfer, and digital negative with emphasis on personal
expression, content, and development of style.
Repeatable 3 times.
Transfer: CSU.

252 PHOTOGRAPHIC LIGHTING (3.0)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 244
Explores various photographic lighting techniques emphasizing artificial
sources. Introduces the student to modifying available light, tungsten light and
strobe light on location and in the studio environment.
Repeatable 3 times.
Transfer: CSU.

253 DIGITAL ART (3.0 to 2.0)
(Formerly ART 153)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 253
Introduces the use of the Macintosh computer, specific to art applications
and the creation of fine art. Instruction will focus on the Macintosh operat-
ing system, and the use of current industry standard vector-based drawing and
raster-based image editing softwares, computer hardware basics, technology,
terminology, peripheral equipment and general practices used when operating a
personal computer.
Transfer: CSU; UC.

254 INTERMEDIATE DIGITAL ART (3.0)
(Formerly ART 154)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 253
Continuation of ART 253 with emphasis on the more complex tools and
procedures of the software which is introduced in ART 253. Presents intermedi-
ate level of integration of digital media with natural art media. Critiques focus
on contemporary aesthetic and ethical issues in digital art as well as the design
attributes of the artwork.
Repeatable 1 time.
Transfer: CSU; UC.

255 ADOBE ILLUSTRATOR: ART, DESIGN, AND ILLUSTRATION (3.0 to 1.0)
(Formerly ART 155)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Basic computer skills.
Introduces students to creating drawings and illustrations, using drawing and
image creation tools, type, layout, and organizational features, filters, and
format images for print, web and other digital media.
Repeatable 3 times.
Transfer: CSU.

256 ADOBE PHOTOSHOP: ART, DESIGN, AND PHOTOGRAPHY (3.0 to 1.0)
(Formerly ART 156)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Basic computer skills.
Introduces students to creating drawings and illustrations, using drawing and
image creation tools, type, layout, and organizational features, filters, and
format images for print, web and other digital media.
Repeatable 3 times.
Transfer: CSU.
Cuesta College

257  DIGITAL PAINTING  (3.0 to 1.0)
(Formerly ART 157)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Basic computer skills.
Prerequisite: ART 223, ART 270, or ART 271
Presents an introduction to digital painting using Adobe Photoshop, with a focus on basic painting techniques, methods and language. Includes color mixing, composition and the integration of traditional and digital painting techniques.
Repeatable 3 times.
Transfer: CSU; UC.

258  ADOBE INDESIGN: ART, DESIGN, AND PHOTOGRAPHY  (3.0 to 1.0)
(Formerly ART 158)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ART 253.
Introduces digital prepress production involving preparation of pages for reproduction on any kind of press or printing system. Presents topics and practical experience in Adobe InDesign, work flow, terminology, file types, font issues, job requirements, various digital input devices, complex file storage and transfer systems, and output options for hard copy.
Repeatable 3 times.
Transfer: CSU.

259  ADOBE DREAMWEAVER: ART, DESIGN, AND INTERACTIVITY  (3.0 to 1.0)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ART 253.
Introduces web page design using Adobe Dreamweaver. Covers a comprehensive range of tasks and functions of the software used in the process of designing and creating artistic and visually dynamic web sites.
Repeatable 3 times.
Transfer: CSU.

260  CONCEPTUAL BLOCKBUSTING  (3.0)
(Formerly ART 160)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Prerequisites: Basic computer skills. Presents students with basic concepts to enhance innate creative abilities. Explores the mental and emotional factors involved in the creative process; linear and non-linear thinking, and multiple intelligences. Numerous creative problem-solving techniques, invention, scientific, and artistic case studies are explored. The underlying assumption is that innovation is a skill which can be learned.
Transfer: CSU.

265  ADOBE FLASH: ART, DESIGN, AND ANIMATION  (3.0)
(Formerly ART 165)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Introduces the basic principles of animation, interactivity, and other time-based media projects using Adobe Flash Professional. Students will learn how these principles are used to construct games, animations and interactive media.
Repeatable 1 time.
Transfer: CSU.

266  GRAPHIC DESIGN  (3.0 to 2.0)
(Formerly ART 166)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 253
Principles and processes used in visual communication. This class focuses on the creative and practical exploration in the area of visual communication. Topics in this class are fundamental to the creation of digital layout, graphics, illustrations, photography, animation, video and multimedia. Projects incorporate symbols and typography into visual design, exploring interrelationships between the formal elements and symbolic content.
Transfer: CSU; UC.

267  INTERMEDIATE GRAPHIC DESIGN  (3.0 to 2.0)
(Formerly ART 167)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 266
Continues the practical skills of ART 266 emphasizing critical assessment of the design principles used in visual communication as well as creative and practical exploration. Topics in this class are fundamental to the creation of digital layout, graphics, illustrations, photography, animation, video and multimedia.
Transfer: CSU.

268  TYPOGRAPHY  (3.0)
(Formerly ART 168)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Introduces basic principles in the effective use of type. Emphasis is on the use of typography in graphic design. Topics include the history of type, aesthetic qualities of letterforms, anatomy of the letter, typeface and style, and compositional arrangement.
Repeatable 1 time.
Transfer: CSU; UC.

270  FUNDAMENTALS OF 3-D DESIGN  (3.0)
(Formerly ART 170)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Transfer: CSU; UC.
Introduces the basic elements and principles of three-dimensional design. Presents a variety of studio problems using basic sculptural materials, tools and methods. Presents an overview of 3D design in historical and contemporary context.
Transfer: CSU; UC.

271  BEGINNING SCULPTURE  (3.0 to 2.0)
(Formerly ART 171)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Transfer: CSU; UC.
Introduces the issues and techniques of contemporary sculpture. Assignments emphasize ideas and personal expression while utilizing the elements and principles of design. Projects explore materials such as fabrication with plaster, metal, mixed media, and wood, and contemporary approaches such as site-specific and installation sculpture.
Transfer: CSU; UC.

272  INTERMEDIATE SCULPTURE  (3.0 to 2.0)
(Formerly ART 172)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 271
Continues study of issues and techniques of contemporary sculpture as introduced in ART 271. Presents intermediate level assignments in fabrication and introduces the casting process. Additional emphasis will be placed on large-scale projects such as site-specific, performance, installation and public art.
Repeatable 3 times.
Transfer: CSU.

273  FIGURE SCULPTURE  (3.0 to 2.0)
(Formerly ART 173)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 223, ART 270, or ART 271

Provides instruction and creative practice in figure sculpture using a live model with directed assignments. Traditional and contemporary techniques and materials will be employed with an emphasis on contemporary issues in figure sculpture. Media may include, but are not limited to, clay, plaster mold-making, cast hydro-stone, bronze casting, plaster construction, welded steel and mixed-media. Repeatable 3 times.
Transfer: CSU; UC.

274 SCULPTURE FOUNDRY (3.0 to 2.0)
(Formerly ART 174)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 270, ART 271 or equivalent.
Provides instruction and practice in bronze casting of sculpture using the lost wax processes including direct modeling and mold making. Emphasizes contemporary art issues related to bronze sculpture. Repeatable 3 times.
Transfer: CSU.

280 CERAMICS (3.0 to 2.0)
(Formerly ART 180)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Introduces the practice and appreciation of ceramics as a fine art covering the basic elements and principles of design, methods and materials specific to ceramic media with a focus on hand-building. Emphasizes the use of ceramics as a personal means of visual expression and communication. Presents an overview of the art of ceramics in an historical and contemporary context.
Transfer: CSU; UC.

281 CERAMICS (3.0 to 2.0)
(Formerly ART 181)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 280
Continues ART 280 with an emphasis on throwing on the potter’s wheel, sculptural form derived from wheel-thrown objects, and sculptural form combining wheel and handbuilt forms. Repeatable 2 times.
Transfer: CSU; UC.

282 INTERMEDIATE CERAMICS (3.0 to 2.0)
(Formerly ART 182)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 280
Explores contemporary issues in ceramic art and the more technically involved construction and decorating methods with an emphasis on glaze technology. Repeatable 3 times.
Transfer: CSU; UC.

283 CERAMIC SCULPTURE (3.0 to 2.0)
(Formerly ART 183)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 280 or a comparable college-level beginning ceramics class
Presents contemporary and traditional processes and materials in their application to the construction of ceramic sculpture.
Repeatable 3 times.
Transfer: CSU; UC.

284 ALTERNATIVE AND PRIMITIVE FIRING TECHNIQUES IN CERAMICS (3.0 to 2.0)
(Formerly ART 184)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 280
Presents instruction and experience in alternative firing techniques for ceramic art. Firings will include pit, sawdust, and raku. Repeatable 3 times.
Transfer: CSU; UC.

285 ADVANCED TOPICS IN CERAMIC ART (3.0)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ART 283 or ART 284
Designed for advanced ceramics students interested in developing a personal style in their work. Includes advanced wheel-throwing techniques, glaze application and formulation, kiln operation. Explores techniques to overcome creative blocks. Researches business practices of studio operation. Repeatable 3 times.
Transfer: CSU; UC.

290 ART EXCURSIONS (1.0 to 0.5)
(Formerly ART 190)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in any art class
Advisory: Eligibility for ENGL 201A.
Provides an opportunity for fine arts students to sketch and study original works of art in museums, galleries, art schools, and other sites in the Los Angeles and San Francisco areas. Sketchbook drawings and/or journal notes may be used by the student as a basis for developing an independent art work or essay. Repeatable 3 times.
Transfer: CSU.

293 PORTFOLIO PRESENTATION (3.0 to 2.0)
(Formerly ART 193)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156
Develops basic skills in resume formulation, selecting, mounting and photographing art work for portfolio presentation to future college or vocational agencies. Examines opportunities and requirements for work in various art-related fields, and investigates goals relative to individual development. Recommended for art majors and minors. Repeatable 1 time.
Transfer: CSU.

295 ART GALLERY (5.0 to 3.0)
(Formerly ART 195)
11.0 hours per week: (2.0 hours lecture, 9.0 hours laboratory)
Associate Degree Applicable
Advisory: ART 220, ART 270, and ART 290
Explores theoretical, technical and aesthetic aspects of exhibiting works of art, as well as providing actual experience in operating an art gallery. Students will work with exhibiting artists, learn about contemporary issues in art and the relationship between gallery, artist and viewing public. Students assist in design, publicity, installation and management of the Cuesta College Art Gallery. Repeatable 3 times.
Transfer: CSU.

299 INDEPENDENT STUDIES: ART (2.0 to 0.5)
(Formerly ART 199)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of Art under the direction of an instructor. Repeatable 3 times.
Transfer: CSU.
**ASTRONOMY [ASTR]**

193  **ASTRONOMY SPECIAL TOPIC**  (4.0 to 0.5)
(Formerly ASTR 93)
4.0 hours lecture per week
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

210  **ASTRONOMY**  (3.0)
(Formerly ASTR 10)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123 or MATH 123SI or equivalent
Advisory: Eligibility for ENGL 201A.
Presents the astronomy of planets, satellites, asteroids, comets, meteors, the sun, stars, and galaxies.
Repeatable 3 times.
Transfer: CSU; UC.

210L  **ASTRONOMY LAB**  (1.0)
(Formerly ART 10L)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: MATH 123 or MATH 123SI or equivalent
Corequisite: ASTR 210
Advisory: Eligibility for ENGL 201A.
Laboratory application of the principles presented in ASTR 210.
Transfer: CSU; UC.

247  **INDEPENDENT STUDIES - ASTRONOMY**  (4.0 to 0.5)
(Formerly ASTR 47)
6.0 hours laboratory per week
Associate Degree Applicable
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Astronomy under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

299  **ASTRONOMY RESEARCH SEMINAR**  (1.0)
3.0 hours per week: (1.0 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Presents basics of scientific research and operation of astronomical telescopes and instruments. Students plan research projects, make observations, analyze results, and write reports for publication.
Repeatable 3 times.
Transfer: CSU.

**AUTOMOTIVE TECHNOLOGY [ATCH]**

109  **INTRODUCTION TO AUTOMOTIVE COMPUTERS**  (2.5)
(Formerly ATECH 109)
4.0 hours per week: (2.0 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Covers the theory, operation, and basic test procedures for on-board computers found on domestic and imported vehicles. Designed for entry level automotive study.

120  **AUTOMOTIVE IGNITION SYSTEMS**  (2.0)
(Formerly ATECH 120)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Covers modern vehicle ignition system theory, diagnosis, and repair. Includes IT, EI, and Coil-On-Plug systems.
Repeatable 1 time.

125  **ENGINE PERFORMANCE**  (4.0)
(Formerly ATECH 125)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: ATCH 152, ATCH 109, ATCH 120 or one year in the automotive trade.
Studies automotive engine performance theory and operation including fuel, electrical, emission, and computer systems. Emphasizes tune-up, pollution control, and driveability diagnostic techniques.
Repeatable 1 time.

127  **ENHANCED CLEAN AIR CAR COURSE**  (1.0)
(Formerly ATECH 127)
2.0 hours per week: (1.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in ATCH 164
Provides training as required by the California Bureau of Automotive Repair to meet Advanced Emission Specialist Technician license requirements. Includes training on Smog Check failure analysis and operation of the Bar-97 dynomometer testing system.
Repeatable 2 times.

147  **INDEPENDENT STUDIES: AUTOMOTIVE / TECHNOLOGY**  (2.0 to 0.5)
(Formerly ATECH 47)
6.0 hours laboratory per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or 65.
Provides an opportunity for in-depth study or practicum experience by an individual student in a selected topic in the automotive technology area with support and direction from an instructor.
Repeatable 3 times.

152  **INTERNAL COMBUSTION ENGINES**  (3.0)
(Formerly ATECH 52)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or 65.
Presents the principles of internal combustion engines encompassing design, construction, and application of engine components, including the ignition, cooling, lubricating, fuel systems, and engine tests and measurements.

153  **ENGINE OVERHAUL PROCEDURES**  (3.0)
(Formerly ATECH 53)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ATCH 252 or equivalent.
Presents a lecture and laboratory course covering theory and manipulative skills required for entry-level employment as an Engine Service Technician. Covers diagnostic removal, teardown, inspection, machining, reassembly, installation, and break-in of automotive engines.

158  **AUTOMOTIVE ELECTRICITY AND ELECTRONICS**  (4.0)
(Formerly ATECH 58)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Studies basic electrical theory, transistors and other semiconductors, as well as batteries, charging systems, cranking systems, lighting, vehicle wiring, and accessory systems.

160  **AUTOMOTIVE ELECTRICAL ACCESSORIES**  (4.0)
(Formerly ATECH 60)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents electrical and electronic troubleshooting, and repair procedures on the modern vehicle. Covers body and accessory circuits, power options, instrumentation, and interfacing between engine and body control computers.

164 BASIC AREA CLEAN AIR CAR COURSE (4.0)
(Formerly ATECH 64)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Minimum one year of trade experience in emissions/tune-up or 180 hours (9 semester credits) of accredited training in tune-up, fuel and electrical courses
Covers the rules and regulations governing the Smog Check Program, inspection procedures using the BAR97 Emissions Inspection System (EIS), and an overview of Onboard Diagnostics II (OBDII). Successful completion of ATCH 164 meets a portion of the requirements for technicians seeking an Emission Basic (EB) or Emission Advanced (EA) Smog Check Technician License. Repeatable 3 times.

166 AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR (2.0)
(Formerly ATECH 66)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents theory and practical application of safety inspections, battery service, oil and lubrication, cooling system, ignition system, brake inspection, wheel bearings and minor repairs.

168 AUTOMOTIVE REPAIR BUSINESS (3.0)
(Formerly ATECH 68)
3.0 hours per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Introduces the many facets of operating an automotive repair business, including entrepreneurship, franchising, market analysis, physical facilities, financing, organization, taxes, insurance, bookkeeping, legal aspects. Material is covered from both the employee’s and the employer’s point of view.

170 AUTO BODY REPAIR I (3.0)
(Formerly ATECH 70)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents the fundamentals of automotive body repair. Includes instruction in body construction, welding, metalworking methods and equipment used in the auto body repair industry. Emphasis is placed on developing the knowledge and manipulative skills necessary for gainful employment in the auto body repair industry.

171 ADVANCED AUTO BODY (3.0)
(Formerly ATECH 71)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ATCH 170
Presents an advanced course in automotive body and fender repair which combines laboratory work on campus and on-site research in a commercial repair facility. This course covers estimating damage, frame alignment, trim work, upholstery removal and installation, shop management, and major collision damage repair. Emphasis is placed on developing the knowledge and manipulative skill necessary for gainful employment in the automotive collision repair industry.

175 AUTOMOTIVE PAINTING (5.0)
(Formerly ATECH 75)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Covers surface preparation, selection and application of undercoats, topcoats and other types of refinishing materials and equipment which are compliant with current Air Pollution Control District rulings and laws governing commercial automotive refinishing operations. Addresses health, safety, and environ-
mental concerns relative to the automotive painting industry. Emphasizes development of the knowledge and manipulative skills necessary for gainful employment in the automotive painting industry.

177 ADVANCED AUTOMOTIVE PAINTING (3.0)
(Formerly ATECH 77)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ATCH 170 and ATCH 175
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents complete vehicle refinishing, color matching techniques, color theory and custom painting as well as vehicle detailing. Prepares students for employment as an automotive painter. Repeatable 1 time.

182 AUTOMATIC TRANSMISSIONS (4.0)
(Formerly ATECH 82)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Introduces fundamental operations, rebuilding procedures, and service of torque converters and automotive automatic transmissions. Provides preparation for Automotive Service Excellence Certification.

186 CHASSIS AND SUSPENSION SYSTEMS (3.0)
(Formerly ATECH 86)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents suspension geometry and design, wheel alignment, active suspension systems, wheel balancing, tires, and steering systems. Provides training toward Automotive Service Excellence Certification.

187 AUTOMOTIVE FUEL INJECTION AND TURBOCHARGERS (3.0)
(Formerly ATECH 87)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents both mechanical and electrical fuel injection systems for automotive gasoline and diesel fuel engines as well as automotive and light truck turbochargers.

188 AUTOMOTIVE HEATING AND AIR CONDITIONING (3.0)
(Formerly ATECH 88)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Provides theory and practical application of the function and repair of heating and air conditioning systems as applied to domestic and imported automobiles. Provides training toward Automotive Service Excellence Certification.

193 AUTOMOTIVE TECHNOLOGY SPECIAL TOPIC (4.0 to 0.5)
(Formerly ATECH 93)
Assess Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

193D FUNDAMENTALS OF SHOP PRACTICE (1.0)
(Formerly ATECH 93D)
1.0 hours lecture per week
Associate Degree Applicable
Presents lecture and demonstration material covering tool and shop safety, threaded fasteners, removing broken and seized fasteners, job costing and estimating, hydraulic principles, leverage, tolerances, and fundamentals of disassembly and assembly of component assemblies.

193E UPDATE TRAINING - AUTOMOTIVE ELECTRIC (1.0)
(Formerly ATECH 93E)
8.0 hours per week: (4.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Engine Performance Specialist Certificate or one year full time equivalent
experience in the trade.

Provides for updating skills in modern automotive electrical service. Prepares student for ASE A-6 electrical test and BAR A-6 alternate test.

**193F UPDATE TRAINING - ENGINE PERFORMANCE** (1.0)
(Formerly ATECH 93F)
8.0 hours per week: (4.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Engine Performance Specialist Certificate or one year full time equivalent experience in the trade.
Provides updated information on engine driveability and performance testing procedures. Prepares the student for ASE A-8 engine performance test and BAR A-8 alternate test.

**193G UPDATE TRAINING - ADVANCED ENGINE PERFORMANCE** (2.0)
(Formerly ATECH 93G)
8.0 hours per week: (5.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Engine Performance Specialist Certificate or one year full time equivalent experience in the trade.
Provides for update skills in engine driveability and emission failure repairs. Prepares the student for ASE L-1 advanced performance test and BAR L-1 alternate test.

**193H UPDATE TRAINING - SMOG CHECK** (1.0)
(Formerly ATECH 93H)
8.0 hours per week: (5.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Engine Performance Specialist Certificate or one year full time equivalent experience in the trade.
Provides update training in automotive emission testing. Required by the BAR for state smog check technician license renewal.

**193K ELECTRONICS FOR AUTOMOTIVE TECHNICIANS** (1.0)
(Formerly ATECH 93K)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable

**195 TECHNICAL CAREER PREPARATION IN AUTOMOTIVE** (1.0)
(Formerly ATECH 95)
1.0 hour lecture per week
Associate Degree Applicable
Overview of automotive careers with focus on preparing for the job market. Includes discussion of career opportunities in the automotive industry, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the automotive industry. Repeatable 2 times.

**263 AUTOMOTIVE FUEL SYSTEMS: CARBURETION** (3.0)
(Formerly ATECH 63)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Studies automotive fuel systems including filters, tanks, lines, safety equipment, pumps, carburetors, and computer controlled carburetors.
Transfer: CSU.

**269 AUTOMOTIVE TECHNOLOGY INTERNSHIP** (3.0)
(Formerly ATECH 69)
6.0 hours per week: (1.5 hours lecture, 4.5 hours laboratory)
Associate Degree Applicable
Prerequisite: Successful completion of 12 semester credits of ATCH courses with a 3.0 GPA
Presents lecture and lab instruction centering around the working environment in the automotive repair industry. Students are assigned to a commercial automotive repair facility for their laboratory experience. Lectures cover such topics as work habits, resumes, interviewing, attitude, safety, labor laws, record keeping, and rules and regulations pertinent to the automotive repair industry. Repeatable 3 times.
Transfer: CSU.

**280 MANUAL DRIVETRAINS** (3.0)
(Formerly ATECH 80)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or ENGL 165.
Presents the fundamental operation, service, diagnosis, and repair of clutch assemblies, manual transmissions and transaxes, rear wheel drive (RWD) drive shafts and universal joints, front wheel drive (FWD) half-shafts and constant velocity joints, rear axle assemblies and differentials, and drive axle wheel bearings as applied to automobiles and light duty trucks.
Transfer: CSU.

**281 MANUAL TRANSMISSIONS** (3.0)
(Formerly ATECH 81)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Advisory: ATCH 182, ATCH 186, and ATCH 109 and eligibility for ENGL 156 or ENGL 165.
Presents the operation, diagnosis, repair, and overhaul of rear wheel drive manual transmissions, front wheel drive manual transaxes, and rear wheel drive axles as applied to automobiles and light duty trucks both foreign and domestic.
Transfer: CSU.

**284 BRAKING SYSTEMS** (4.0)
(Formerly ATECH 84)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: ATCH 109 and eligibility for ENGL 156 or ENGL 165.
Presents automotive braking systems including conventional drum type brakes, disc brakes, vacuum and hydraulic boosters, and anti-lock brake systems. Provides training for licensing by the Bureau of Automotive Repair and by Automotive Service Excellence Certification.
Transfer: CSU.

**BIOLOGY [BIO]**

**193 BIOLOGY SPECIAL TOPIC** (4.0 to 0.5)
(Formerly BIO 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

**201A BIOLOGY** (5.0)
(Formerly BIO 1A)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MATH 127, MATH 127SI or equivalent with a grade of C or better and CHEM 210 or high school chemistry with a grade of C or better
Advisory: ENGL 156.
Presents the principles of life and life processes with an emphasis on cellular structure, cellular chemistry, genetics, and life’s origins and diversity.
Transfer: CSU; UC.

**201B BIOLOGY** (5.0)
(Formerly BIO 1B)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: BIO 201A with a grade of C or better
Continues BIO 201A with emphasis on plant and animal structure and physiology, evolution, and ecology.
Transfer: CSU; UC.

**202 GENERAL BOTANY** (5.0)
(Formerly BIO 2)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of any 3-unit or more college level biology course with a lab with a grade of C or better; or Completion of a high school AP biology course with a grade of C or better
Cuesta College

Advisory: ENGL 156.

203 GENERAL ZOOLOGY (5.0)
(Formerly BIO 3)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: BIO 201A with a grade of C or better
Presents a study of the comparative biology of the animal kingdom. Topics covered include comparative anatomy and physiology, embryology, evolution, and ecology.
Transfer: CU; UC.

204 MICROBIOLOGY (5.0)
(Formerly BIO 4)
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CHEM 210 or equivalent with a grade of C or better
Advisory: ENGL 156 and BIO 201A.
Presents the general facts regarding bacteria and other microbial forms, particularly those that affect general health. Laboratory work includes culture techniques, animal host techniques, and identification of microbes.
Transfer: CU; UC.

205 HUMAN ANATOMY (4.0)
(Formerly BIO 5)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Studies human anatomy with models and selected preserved material to demonstrate the anatomical systems. Utilizes an audio-tutorial approach to instruction.
Transfer: CU; UC.

206 GENERAL HUMAN PHYSIOLOGY (5.0)
(Formerly BIO 6)
7.0 hours per week: (4.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CHEM 210 or equivalent with a grade of C or better and BIO 205
Advisory: BIO 201A.
Presents the physiology of human body systems with emphasis upon functions of growth, fitness, motion and sensitivity. Lecture and laboratory contents are appropriate for students of biology, nursing, pre-medical and exercise sciences.
Transfer: CU; UC.

208E BIOLOGY SEMINAR: ENVIRONMENTAL (1.0)
(Formerly BIO 8E)
1.0 hour lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in any college biology course
Advisory: ENGL 156.
Presents discussions of the latest developments in biology and allied fields with an emphasis on environment-related topics.
Transfer: CSU.

208G BIOLOGY SEMINAR: GENERAL TOPICS (1.0)
(Formerly BIO 8G)
1.0 hour lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in any college biology course
Advisory: ENGL 156.
Presents discussions of the latest developments in biology and allied fields with an emphasis on general topics.
Transfer: CSU.

209C COASTAL BIOLOGY FIELD STUDIES (1.0)
(Formerly BIO 9C)
54.0 hours laboratory by arrangement per week
Associate Degree Applicable
Transfer: CSU; UC.

209D DESERT BIOLOGY FIELD STUDIES (1.0)
(Formerly BIO 9D)
54.0 hours laboratory by arrangement per week
Associate Degree Applicable
Prerequisite: Any 3 unit or greater college level biology course.
Presents a field study course on the California deserts. Includes the formation of the deserts and the ecological relationship of desert plants and animals. Practices field techniques used in data collection and analysis. Camping, food, and other expenses will be shared by the students. UC credit contingent upon UC review.
Transfer: CU; UC.

209H HAWAIIAN BIOLOGY FIELD STUDIES (3.0 to 1.0)
(Formerly BIO 9H)
36.0 hours per week: (9.0 hours lecture, 27.0 hours laboratory)
Associate Degree Applicable
Presents a field study course on the Natural History of Hawaii. Includes the formation of the islands and the ecological relationship of the island plants and animals. Transportation and Land costs are the responsibility of the students.
Transfer: CU; UC.

209S SIERRA BIOLOGY FIELD STUDIES (1.0)
(Formerly BIO 9S)
54.0 hours laboratory by arrangement per week
Associate Degree Applicable
Prerequisite: Any 3 unit or greater college level biology course.
Presents a field study course on the California deserts. Includes the formation of the deserts and the ecological relationship of desert plants and animals. Practices field techniques used in data collection and analysis. Camping, food, and other expenses will be shared by the students. UC credit contingent upon UC review.
Transfer: CU; UC.

210E NATURAL HISTORY OF EASTERN CALIFORNIA MOUNTAINS & DESERTS (2.0)
(Formerly BIO 10E)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Presents a lecture and field study course on the ecology and natural history of Eastern California mountains and deserts. Includes the study of their geological history, native plant and animal communities, human impacts, and the history and function of the preservation and conservation of ecosystems including the U.S. Forest Service and Bureau of Land Management. A field trip will reinforce and elaborate upon lecture material. Field techniques also will be taught on the field trip. Students will be required to maintain and turn in a standardized field notebook. Camping, food, transportation, and other expenses will be the responsibility of the students. Students should be prepared for camping in both hot and cold (freezing) environments and for extensive hiking on and off trails over rugged terrain at elevations greater than 10,000 feet.
Repeatable 1 time
Transfer: CSU; UC.

210I ISLAND BIOLOGY (2.0)
(Formerly BIO 10I)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents a lecture and field study course on the biology, ecology, and natural his-
tory of islands. Includes the study of their ecological and evolutionary history, including colonization and establishment of native plant and animal communities, human impacts, and preservation and conservation of island ecosystems. A field trip will reinforce and elaborate upon lecture material. Field techniques will also be taught on the field trip. Students will be required to maintain and turn in a standardized field notebook. Camping, food, transportation, and other expenses will be the responsibility of the students. Students should be prepared for camping in a coastal environment and for extensive hiking on and off trails over rugged terrain.

Transfer: CSU; UC.

210R  NATURAL HISTORY OF THE COAST RANGES  
(Formerly BIO 10R)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  

Presents a lecture and field study course on the ecology and natural history of the coast ranges. Includes the study of their geological history, native plant and animal communities, human impacts, and the history and function of the preservation and conservation of ecosystems including the national forest, Bureau of Land Management, and California state parks. A field trip will reinforce and elaborate upon lecture material. Field techniques also will be taught on the field trip. Students will be required to maintain and turn in a standardized field notebook. Camping, food, transportation, and other expenses will be the responsibility of the students. Students should be prepared for camping in a moist, coastal environment and extensive hiking on and off trails from sea level to over 2000 feet over rugged terrain.

Repeatable 1 time.  
Transfer: CSU; UC.

210V  NATURAL HISTORY OF DEATH VALLEY NATIONAL PARK  
(Formerly BIO 10V)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  

Presents a lecture and field study course on the ecology and natural history of Death Valley National Park (DVNP). Includes the study of its geological history, native plant and animal communities, human impacts on DVNP ecosystems, and the history and function of the National Park Service. A field trip to DVNP will reinforce and elaborate upon lecture material. Field techniques also will be taught on the field trip. Students will be required to maintain and turn in a standardized field notebook. Camping, food, transportation, and other expenses will be the responsibility of the students. Students should be prepared for camping in hot deserts, high mountain elevations (8000+ feet), and extensive hiking on and off trails.

Repeatable 1 time.  
Transfer: CSU; UC.

211  LIFE SCIENCE  
(Formerly BIO 11)  
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: ENGL 156.  

Introduces the non-biology major to the organization and evolution of life and the structure and function of living systems from cells to biomes. Utilizes the lecture and laboratory approach to instruction.

Transfer: CSU; UC (For UC, no credit if taken after BIO 201A, 201B, 202, or 203).

212  HUMAN BIOLOGY  
(Formerly BIO 12)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  

Introduces fundamental structural and functional concepts of the human body systems, and their disorders and therapies. Designed for non-science majors and provides an appreciation for popular interests such as fitness, immunity, inheritance, and common medical terminology.

Transfer: CSU; UC.
living organisms and their living and non-living environment. The emphasis in lecture is on major principles describing these interrelationships including evolution, energy flow and nutrient cycling via food webs, competition, and predation. The emphasis in the laboratory is on the gathering and interpretation of ecological data in lab and field.

Transfer: CSU; UC.

222 MARINE BIOLOGY (3.0)
(Formerly BIO 22)
3.0 hours lecture per week
Associate Degree Applicable
Transfer: CSU; UC.

222L MARINE BIOLOGY LABORATORY (1.0)
(Formerly BIO 22L)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in BIO 222
Presents an applied, optional course designed to augment BIO 222, through laboratory and field investigations.
Transfer: CSU; UC.

224 PRINCIPLES OF NATURAL HISTORY (3.0)
(Formerly BIO 24)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Presents an ecological approach to the natural history of terrestrial plants and animals in California. Emphasizes classification, relationships to environment, interrelationships, problems of life, economic importance, and field biology techniques.
Transfer: CSU; UC.

226 UNDERSTANDING RARE SPECIES IN CALIFORNIA (1.0)
(Formerly BIO 26)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces the importance of rare species, studies reasons for rarity, and examines methods of preservation. Biological, economical and political influences on rare species are considered.
Transfer: CSU.

242H HONORS SEMINAR: BIOLOGY (1.0)
(Formerly BIO 42H)
1.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 201A.
Provides the opportunity for broadening the student’s background in general education and for providing a study of selected topics in biology. Emphasis shall be on discussion and analysis of subject matter and current advancements. Open only to students admitted to the Honors Program.
Repeatable 3 times.
Transfer: CSU.

243 FACILITATOR ASSISTED LEARNING: BIOLOGY SEMINAR (0.5)
(Formerly BIO 43)
9.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Develops interpersonal skills, understanding of the learning process, and effectiveness as a facilitator. Seminar prepares students to facilitate in their subject area.
Repeatable 2 times.
Transfer: CSU.

244A FACILITATOR ASSISTED LEARNING PRACTICUM: ANATOMY (1.0)
(Formerly BIO 44A)
1.0 hour lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Provides practical applications of facilitator assisted learning (FAL) in small groups of anatomy students.
Repeatable 3 times.
Transfer: CSU.

244B FACILITATOR ASSISTED LEARNING PRACTICUM: BIOLOGY (1.0)
(Formerly BIO 44B)
1.0 hour lecture per week
Associate Degree Applicable
Prerequisite: Completion or concurrent enrollment in BIO 243
Advisory: ENGL 156.
Provides practical applications of facilitator assisted learning (FAL) in small groups of biology students.
Repeatable 3 times.
Transfer: CSU.

247 INDEPENDENT STUDIES: BIOLOGY (2.0 to 0.5)
(Formerly BIO 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of biology under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

BROADCAST COMMUNICATIONS [BCST]

193 BROADCAST COMMUNICATIONS SPECIAL TOPIC (4.0 to 0.5)
(Formerly BCST 93)
Associate Degree Non-Applicable
Examines a special topic in the field of study related to the discipline offering this course.

221 INTRODUCTION TO ELECTRONIC MEDIA (3.0)
(Formerly BCST 21)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents a survey of electronic media including radio, television, film and digital media and their impact on culture and society in context with preexisting models; includes history, economics, technological development, programming, ratings, legal aspects, and social aspects of broadcasting in America with cross-cultural and international comparisons.
Transfer: CSU.

223 VIDEO OPERATIONS (3.0)
(Formerly BCST 23)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents the theory and demonstration of video control room and studio equipment. Offers beginning students a comprehensive overview of video studio and field operations, technical fundamentals, and basic program production.
Transfer: CSU.

224A AUDIO PRODUCTION (3.0)
(Formerly BCST 24A)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Provides the theory and practice of audio techniques in radio, television, film, and multimedia, including acoustics, audio language and terms, signal flow, use of microphones, use of mixers and related production equipment, and the aesthetic aspects of sound mixing. Students will apply their knowledge to create audio productions in class and on the college radio station, KGUR 105.3 FM.

Transfer: CSU.

224B ADVANCED AUDIO PRODUCTION
(Formerly BCST 24B)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: BCST 224A or equivalent

Emphasizes polishing basic production skills and developing new and more complex production techniques through computer (Digidesign Pro Tools) editing and audio recording. Provides laboratory practice in the day-to-day operation of the campus radio station. Acceptable for credit, CSU.

Transfer: CSU.

224C ADVANCED AUDIO PRODUCTION
(Formerly BCST 24C)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: BCST 224B with a grade of C or better.
Advisory: Eligibility for ENGL 156.

Builds upon the skills introduced in BCST 224B. Introduces theory of programming, format operations, and management of small market stations. Provides experience in news scripting and on-the-air newscasting. Introduces quick punch advanced recording using the Digidesign Pro Tools audio computer. Provides laboratory practices in the day-to-day operation of the campus radio station. Provides some staff members for KGUR radio station.

Transfer: CSU.

224D ADVANCED AUDIO PRODUCTION
(Formerly BCST 24D)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: BCST 224C with a grade of C or better
Advisory: Eligibility for ENGL 156.

Builds upon the skills and techniques introduced in BCST 224C. Further develops production skills with the introduction of Digidesign Pro Tools mixdown and mastering techniques, and bouncing tracks. Air personality skills emphasized. Provides laboratory practice in the operation day-to-day operation of the campus radio stations. Provides some staff members for KGUR radio station.

Transfer: CSU.

225A VIDEO STUDIO PRODUCTION
(Formerly BCST 25A)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in BCST 223

Provides an introduction to the theory, terminology, signal flow and operations within a multicamera television studio and control room; includes TV history, TV aesthetics directing, the operation of broadcast quality video cameras, audio equipment, switches, the fundamentals of lighting, computer generated graphics, video control and recording.

Transfer: CSU.

225B FIELD VIDEO PRODUCTION AND EDITING
(Formerly BCST 25B)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in BCST 223

Provides an introduction to the theory, terminology, and operation of single camera video production including composition and editing techniques, camera operation, portable lighting, video recorder operation, audio control, and non-linear editing. Includes the aesthetics and fundamentals of scripting, producing, and directing on location, incorporating multimedia, and postproduction.

Transfer: CSU.

226 WRITING FOR ELECTRONIC MEDIA
(Formerly BCST 26)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A or equivalent with a grade of C or better

Introduces the principles, techniques, and style of writing for electronic media. Includes the writing of commercials, public service announcements, news, editorials, narration, and dramatic presentations. Introduces an analysis of content and ethical considerations of the electronic media.

Transfer: CSU.

227 PRINCIPLES OF RADIO BROADCAST PERFORMANCE
(3.0 to 0.5)
(Formerly BCST 27)
3.0 hours lecture per week
Associate Degree Applicable

Explore techniques necessary to effectively communicate messages through basic announcing skills. Interviewing, radio news, commercial announcing, ad-lib techniques, voice tracking and career exploration will be covered in-depth. Learn practice skills needed to professionally perform in radio broadcasting as a career.

Repeatable 3 times.

Transfer: CSU.

230A TELEVISION INTERNSHIP
(Formerly BCST 30A)
9.0 hours laboratory by arrangement per week
Associate Degree Applicable
Prerequisite: BCST 225A and approval of station management

Provides practical supervised work experience as a regular staff member in a local area television station. Includes work in the production department of a television station helping to prepare for and operate equipment during newscasts which may include studio camera operation, floor directing, teleprompter operation, and other assigned responsibilities. Acceptable credit, CSU. ONLY STUDENTS WHO HAVE BEEN GIVEN PERMISSION FROM THE CHAIR OF THE BROADCASTING DEPARTMENT MAY BE ALLOWED TO INTERVIEW FOR THE INTERNSHIP PROGRAM.

Transfer: CSU.

230B TELEVISION INTERNSHIP
(Formerly BCST 30B)
9.0 hours laboratory by arrangement per week
Associate Degree Applicable
Prerequisite: BCST 225B and approval of the station management

Provides practical supervised work experience as a regular staff member in a local area television station or other broadcast media production facility. Includes field shooting, videotape editing, field sound operation, and other assigned responsibilities. Acceptable credit, CSU. ONLY STUDENTS WHO HAVE BEEN GIVEN PERMISSION FROM THE CHAIR OF THE BROADCASTING DEPARTMENT MAY BE ALLOWED TO INTERVIEW FOR THE INTERNSHIP PROGRAM.

Transfer: CSU.

230C TELEVISION INTERNSHIP
(Formerly BCST 30C)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: BCST 225B or BCST 225B and approval of station management

Provides practical supervised work experience as a regular staff member in a local cable television station or other broadcast media production facility. Includes planning, scheduling, talent coordination, production duties and other responsibilities as assigned. Acceptable for credit, CSU. ONLY STUDENTS WHO HAVE BEEN GIVEN PERMISSION FROM THE CHAIR OF THE BROADCASTING DEPARTMENT MAY BE ALLOWED TO INTERVIEW FOR THE INTERNSHIP PROGRAM.

Transfer: CSU.
230D TELEVISION INTERNSHIP
(Formerly BCST 30D)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: BCST 225A or BCST 225B and approval of the station management
Provides practical supervised work experience as a regular staff member in a local
area cable company, television station, or other broadcast media production
facility. Includes working for independent production companies or advertising
agencies. Acceptable for credit, CSU. ONLY STUDENTS WHO HAVE
BEEN GIVEN PERMISSION FROM THE CHAIR OF THE BROADCASTING
DEPARTMENT MAY BE ALLOWED TO INTERVIEW FOR THE
INTERNSHIP PROGRAM.
Transfer: CSU.

247 INDEPENDENT STUDIES: BROADCAST COMMUNICATIONS
(Formerly BCST 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field
in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an
individual student in a selected topic of broadcast communications under the
direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

BUSINESS [BUS]

093M SUPERVISION & MANAGEMENT ACADEMY: YOUR MANAGEMENT PERSPECTIVE
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Builds on the students’ past and current experience as a manager supervising
employees. This advanced class facilitates and expands students’ understanding
of the significant change in perspective that must be adopted by supervisors in
order to be effective at managing employees, and adhering to company policies
and labor law.
Repeatable 1 time.

093N SUPERVISION & MANAGEMENT ACADEMY: PERFORMANCE MANAGEMENT CYCLE
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Enhances the students’ current performance management practices from hiring
to the formal appraisal by examining the performance management cycle. This
is an advanced course designed for students who are currently employed with
responsibility to formally manage employee performance.
Repeatable 1 time.

093O SUPERVISION & MANAGEMENT ACADEMY: REACHING MUTUAL UNDERSTANDING
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Learn state of the art communication skills necessary to reach mutual under-
standing and manage inevitable conflicts that supervisors must handle. This
is an advanced communication and conflict management course designed for
students who are currently employed with responsibility to supervise others.
Repeatable 1 time.

093P SUPERVISION & MANAGEMENT ACADEMY: LEADING A DIVERSE TEAM
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Identifies the students’ demonstrated strengths and areas of improvement at
leading a diverse team. Improves the students’ ability as a manager to value
diversity and effectively use their legitimate and personal power to lead a highly
effective team.
Repeatable 1 time.

093Q SUPERVISION & MANAGEMENT ACADEMY: CONSCIOUS, STRATEGIC CHOICES
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Expounds on strategic methods for effective decision-making while exploring
the implications of those decisions on the organizational and employees
personal resistance to change. This is an advanced class that emphasizes the
students’ current ability to strategically and effectively lead the process of change
as a working manager.
Repeatable 1 time.

093R SUPERVISION & MANAGEMENT ACADEMY: MOTIVATING THROUGH DELEGATION
0.5 hours lecture per week
Associate Degree Non-Applicable
Advisory: Completion of all ten Customer Service Academy classes or instructor
approval needed.
Advance the students’ success at using delegation as a motivational and time
management tool. This course is specially designed for currently employed man-
gers needing to effectively supervise employees.
Repeatable 1 time.

129 BUSINESS INTERNSHIP
(Formerly BUS 29)
8.0 hours per week: (0.5 hours lecture, 7.5 hours laboratory)
Associate Degree Applicable
Prerequisite: 6 units of Business classes
Provides students an opportunity to experience the responsibilities of an em-
ployee in a business setting related to their courses of study in business.
Repeatable 3 times.

130 INTRODUCTION TO E-COMMERCE
3.0 hours lecture per week
Associate Degree Applicable
Summarizes online buying, selling, and delivery of products and services for
personal and business purposes. Addresses Internet security and privacy issues,
including credit card use, analyzes various revenue streams for business opportu-
nities, and evaluates popular shopping cart packages.

131 E-COMMERCE: SOCIAL MEDIA MARKETING
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: BUS 243.
Advisory: BUS 130.
Provides a hands-on introduction to social media marketing, including per-
sonal branding, blogs, email campaigns, social network participation, affiliate
marketing, search engine optimization (SEO), and search engine marketing
(SEM). Explore viral marketing, measurement tools for social media marketing
campaigns, and career opportunities.

132 E-COMMERCE: INFORMATION PRODUCTS
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: BUS 130 OR BUS 243
Advisory: BUS 131.
Builds upon the concepts learned in Social Media Marketing, BUS 131, in order to effectively develop a plan to sell digital goods, such as music, information, videos, software, etc., or services, such as consulting, online. Addresses legal issues such as copyrights, taxes, and guarantees, and customer relationship and retention strategies.

133 E-COMMERCE: PHYSICAL PRODUCTS (3.0)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: BUS 130 OR BUS 243.
Advisory: BUS 131.
Builds upon the concepts learned in E-Commerce: Social Media Marketing, BUS 131, in order to effectively develop a plan to sell physical products, as well as to conduct business-to-business e-commerce via extranets. Includes order fulfillment, shipping, delivery, reverse logistics, and supply chain management issues.

134 E-COMMERCE ENTREPRENEURSHIP (4.0)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: BUS 248 AND EITHER BUS 132 OR BUS 133.
Advisory: LIBT 207 AND CAOA 269.
Design, develop, test, and implement a virtual “store”. Transfer brick and mortar small business management skills in business planning and operations to an online business. Gain actual experience in e-commerce site design, including working with potential clients, needs analysis, and production strategies.

135 EVERYTHING EBAY (3.0)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: BUS 130 and LIBT 207.
Provides an overview of conducting business electronically via eBay, the World Wide Web’s most popular online auction platform. Introduces students to online selling for both B2C (Business to Consumer) and B2B (Business to Business). Students will set up an eBay store and successfully conduct transactions, including sourcing, listing, marketing, selling and shipping the physical products.

162 GEOGRAPHY FOR INTERNATIONAL BUSINESS (3.0)
(Formerly BUS 62)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Survey of the characteristics and issues that help define Europe, Latin America, Africa, the Middle East, Asia and the Pacific Rim. Course introduces the topics of natural resource allocation, population patterns, economic variables, political institutions and regional cultural characteristics pertaining to consumers and how they act in the business environment in different regions of the world.

164 INTERNATIONAL TRADE RELATIONS (3.0)
(Formerly BUS 64)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Presents how domestic and foreign trade policy is established and discusses its impact on companies conducting international trade. Covers trade agreements, political systems, global monetary determinants and economic policies which facilitate or impede free market trade worldwide.

165 BASICS OF EXPORTING AND IMPORTING (2.0)
(Formerly BUS 65)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Presents processes and strategies necessary to export and import from overseas markets. Considers the demand for product utilization, marketing within cultural contexts, pricing levels, transportation channels, export/import documentation requirements plus financing alternatives.

166 ISO 9000/TOTAL QUALITY MANAGEMENT (2.0)
(Formerly BUS 66)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces ISO 9000 as a comprehensive management system which assures a quality level of industrial standards that can be applied to worldwide trade. Presents how TQM can be incorporated into company operations leading to continual performance improvements with a focus on the customer.

168 INTERNATIONAL MARKETING (3.0)
(Formerly BUS 68)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Presents the issues associated with marketing products and services in an international context. Discusses the analysis of markets, competitors and governments in Europe, Asia, Latin America and the Middle East plus sources of information to conduct global research.

170 DEALING WITH CHANGE (0.5)
(Formerly BUS 70)
4.5 hours lecture per week
Associate Degree Applicable
Provides students with an understanding of change and the influence it has on an organization and the individuals in that organization. Topics will include understanding organizational change, theoretical models of change, stages of change, and how to manage organizational change.
Repeatable 1 time.

171 TEAM BUILDING (0.5)
(Formerly BUS 71)
4.5 hours lecture per week
Provides the student with an understanding of how teams work together, common problems teams encounter and how to solve them. Students will learn to recognize various team player styles. Students will be introduced to team building in the workplace.
Repeatable 1 time.

172 COMMUNICATING WITH PEOPLE (0.5)
(Formerly BUS 72)
4.5 hours lecture per week
Associate Degree Applicable
Introduces the student to key elements in communication within business organizations. Topics will include verbal and nonverbal communication, listening skills and specific supervisory communication skills.
Repeatable 1 time.

173 CONFLICT RESOLUTION (0.5)
(Formerly BUS 73)
4.5 hours lecture per week
Provides the student with an analysis of attitudes and behavior, which create conflict between individuals and groups within an organization.
Repeatable 1 time.

174 CUSTOMER SERVICE (0.5)
(Formerly BUS 74)
4.5 hours lecture per week
Provides the student with certain key skills and attitudes in order to effectively meet the needs of customers. The student will be introduced to the concept of internal and external customers, customer satisfaction and customer retention.
Repeatable 1 time.

175 VALUES & ETHICS (0.5)
(Formerly BUS 75)
4.5 hours lecture per week
Cuesta College

Associate Degree Applicable
Acquaints the student with the importance of values and ethics in the workplace. The importance of values and ethics involved in the supervisor's carrying out his/her duties will be emphasized.
Repeatability: 1 time.

176 ATITUDE IN THE WORKPLACE (0.5)
(Formerly BUS 76)
4.5 hours lecture per week
Associate Degree Applicable
Provides the student with certain key skills in the area of attitude so that they may effectively maintain a positive attitude at the workplace and at home. Concepts of how attitudes are communicated, the three types of attitudes and how to adjust one's attitude will be presented.
Repeatability: 1 time.

177 STRESS MANAGEMENT (0.5)
(Formerly BUS 77)
4.5 hours lecture per week
Associate Degree Applicable
Acquaints the student with various skills the supervisor needs to help employees. Included is the recognition of stress and how to manage it.
Repeatability: 1 time.

178 DECISION MAKING & PROBLEM SOLVING (0.5)
(Formerly BUS 78)
4.5 hours lecture per week
Associate Degree Applicable
Introduces the student to decision making and problem solving as a supervisor.
Repeatability: 1 time.

179 TIME MANAGEMENT (0.5)
(Formerly BUS 79)
4.5 hours lecture per week
Associate Degree Applicable
Introduces the student to time management principles and specific tools that assist in making maximum use of time.
Repeatability: 1 time.

180 EFFECTIVE LABOR RELATIONS (0.5)
(Formerly BUS 80)
4.5 hours lecture per week
Associate Degree Applicable
Provides students with an understanding of the elements of an effective labor relations program for today's workforce. Topics will include understanding principal labor legislation, ways to respond to legal challenges and how to develop basic labor relations approach.
Repeatability: 1 time.

181 PROFESSIONAL IMAGE: APPEARANCE, ETIQUETTE & NETWORKING (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Engages the student in discussions and activities related to the significance of personal appearance, business appropriate behavior and etiquette, as well as the process of networking to build professional relationships.
Repeatability: 1 time.

182 GOAL SETTING: VISION, GOALS AND JOB SEARCH STRATEGIES (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Engages the student in discussions and activities related to the significance of having a personal vision, setting attainable goals for the future, and employing useful job search strategies for pursuing a meaningful career and work life.

183 USING TECHNOLOGY TO COMMUNICATE EFFECTIVELY (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Equips the student to communicate professionally and effectively when using various forms of electronic/technology communication tools. Includes telephone etiquette and techniques, e-mail, text messaging and other business-related technologies.

190 SUPERVISION AND MANAGEMENT ACADEMY: EXPAND YOUR MANAGEMENT PERSPECTIVE (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Builds on students' past and current experience as a manager supervising employees. This advanced class facilitates and expands students' understanding of the significant change in perspective that must be adopted by supervisors in order to be effective at managing employees and adhering to company policies and labor law.
Repeatability: 1 time.

191 SUPERVISION AND MANAGEMENT ACADEMY: THE PERFORMANCE MANAGEMENT CYCLE (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Enhances the students' current performance management practices from hiring to the formal appraisal by examining the performance management cycle. This is an advanced course designed for students who are currently employed with responsibility to formally manage employee performance.
Repeatability: 1 time.

192 SUPERVISION AND MANAGEMENT ACADEMY: THE ART OF MAKING CONSCIOUS, STRATEGIC DECISIONS (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Expounds on strategic methods for effective decision-making while exploring the implications of those decisions on organizational/employee resistance to change. This is an advanced class that emphasizes the students' current ability to strategically and effectively lead the process of change as a working manager.
Repeatability: 1 time.

193 BUSINESS SPECIAL TOPIC (4.0 to 0.5)
(Formerly BUS 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

194 SUPERVISION AND MANAGEMENT ACADEMY: MAKING REACHING MUTUAL UNDERSTANDING (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Learn state of the art communication skills necessary to reach mutual understanding and manage inevitable conflicts that supervisors must handle. This is an advanced communication and conflict management course designed for students who are currently employed with the responsibility of supervising others.
Repeatability: 1 time.

195 SUPERVISION AND MANAGEMENT ACADEMY: MOTIVATING PERFORMANCE THROUGH FEEDBACK AND DELEGATION (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Expands the student's understanding of human motivation investigating why employees do what they do and how to sustain a motivated work environment through supportive and/or corrective feedback toward improving work performance. Explores solutions for when opportunities exceed resources through the application of the laws of time management and the effectiveness of delegation.
Repeatability: 1 time.

196 WORKPLACE HUMAN RELATIONS (2.0)
(Formerly BUS 96)
4.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Discusses the process of forming personal attitudes, identifying and changing...
our personal attitudes, the behavioral aspects of interpersonal relationship and self-esteem are studied. Personal communication skills concepts are discussed. Cultural diversity awareness and increased team building skills are explored.

**197 SUPERVISION AND MANAGEMENT ACADEMY: LEADING A DIVERSE TEAM**

0.5 hours lecture per week  
Associate Degree Applicable  
Identifies the students’ demonstrated strengths and areas of improvement for leading a diverse team. Improves the students' ability as a manager to value diversity and effectively use their legitimate and personal power to lead a highly effective team. Repeatable 1 time.

**201A FINANCIAL ACCOUNTING**

(Formerly BUS 1A)  
4.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156 and MATH 123.  
Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the accounting information system and recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. Includes issues relating to asset, liability and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics.  
Transfer: CSU; UC.

**201B MANAGERIAL ACCOUNTING**

(Formerly BUS 1B)  
4.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: BUS 201A  
Examination of how management uses accounting information in decision-making, planning, directing operations and controlling costs. Focus on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Examines profit planning, standard costs, operations and capital budgeting, cost control and accounting for costs in manufacturing organizations.  
Transfer: CSU; UC.

**218 BUSINESS LAW**

(Formerly BUS 18)  
4.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Offers legal knowledge concerning business and business relationships with emphasis on the laws of torts, property, contracts, agency, business organizations, and sales. Includes study of the nature and background of American law, court systems, and court procedures.  
Transfer: CSU; UC.

**219 INTERNATIONAL BUSINESS LAW**

(Formerly BUS 19)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Offers basic legal knowledge essential to business including study of nature and background of American law and courts and court procedures with emphasis on both domestic and international laws of contract, sales, agency, employment, business organizations, commercial paper, property, and dispute resolution.  
Transfer: CSU; UC.

**240 ADVERTISING**

(Formerly BUS 40)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: BUS 243  
Advisory: Eligibility for ENGL 156.  
Introduces the student to the principles, purposes and practices of advertising; the importance of correct appeal, style, headline, typography, color, layout, ethics; and other problems involved in the creation and evaluation of effective advertising. (No artistic ability required.)  
Transfer: CSU.

**241 SALES**

(Formerly BUS 41)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Introduces principles, purposes, and practices of personal selling and its importance to an organization and to a free enterprise economic system.  
Transfer: CSU.

**243 MARKETING**

(Formerly BUS 43)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Introduces fundamentals of product planning, pricing, distribution and promotion of goods, services and non-profits; market research, consumer behavior, international business, and the industrial market.  
Transfer: CSU.

**245 INTRODUCTION TO BUSINESS**

(Formerly BUS 45)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A and MATH 123.  
Introduces the field of business and business economics. Includes functions, characteristics, organization, operation, and general problems of business. Surveys the various fields of business management, distribution, records, selling, finance, and production.  
Transfer: CSU; UC.

**246 RETAIL MERCHANDISING**

(Formerly BUS 46)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A and MATH 123 or MATH 123SI.  
Introduces students to the methods and techniques of retail distribution of merchandise, with special emphasis on buying, selling and promotion processes in the retail store.  
Transfer: CSU.

**247 INDEPENDENT STUDIES: BUSINESS**

(Formerly BUS 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken. Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of business under the direction of an instructor. Repeatable 3 times.  
Transfer: CSU.

**248 SMALL BUSINESS MANAGEMENT**

(Formerly BUS 48)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Presents the role of small businesses in the free enterprise system. Discusses numerous aspects of small business ownership and entrepreneurship. Provides techniques in strategic planning, marketing, and controlling business operations for managers of small firms.  
Transfer: CSU.
249 ENTREPRENEURSHIP
(Formerly BUS 49)
4.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 and MATH 123 or MATH 123SI.
Introduces students to the concepts, techniques and requirements for establishing a business.
Transfer: CSU.

250 ENTREPRENEUR SIMULATION
(Formerly BUS 50)
1.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 and MATH 123 or MATH 123SI.
Introduces students to the use of a simulation in making decisions affecting the success/failure of a business.
Transfer: CSU.

251 ELEMENTS OF ACCOUNTING
(Formerly BUS 51)
4.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Provides a condensed and general accounting background dealing with basic accounting practices and procedures. Introduces necessary procedures for "service" as well as "service-trading" businesses and payroll accounting. Not open to students with credit in or enrolled in BUS 201A or BUS 201B.
Transfer: CSU.

260 INTERNATIONAL BUSINESS
(Formerly BUS 60)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: BUS 245.
Provides an understanding of the cultural dimensions and market forces necessary to conduct business in a global environment. Examines ethnocentric models of cultural values and behavior and explores cross-cultural differences between Asia, Latin America, Africa, Middle East, Europe, and the United States in order to develop appropriate strategies to conduct business in a transnational setting. Introduces adaptation skills to successfully deal abroad and identifies the major components of national culture impacting the development and growth of business products and services in the international marketplace.
Transfer: CSU.

283 MANAGEMENT AND SUPERVISION
(Formerly BUS 83)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Discusses the process of management and how to supervise employees in today's business climate. The behavioral aspects of managing human resources are emphasized with a focus on the current practices of world-class companies.
Transfer: CSU.

286 HUMAN RELATIONS
(Formerly BUS 86)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces students to the basic principles of how to manage employees in various organizational settings such as business, government and the service sector.
Transfer: CSU.

510 INTRODUCTION TO TAX PREPARATION I
1.0 hours lecture per week
Introduces basic tax concepts and terminology needed to prepare simple federal/state income tax returns under the supervision of a qualified instructor for the SLO County VITA Coalition free Income Tax Assistance program. Students must also enroll in Introduction to Income Tax Preparation Software and Income Tax Preparation Internship of the Income Tax Preparation certificate program.
Repeatable.

511 INTRODUCTION TO TAX PREPARATION II - SOFTWARE
0.0 hours lecture per week
Prerequisite: Registered and attended the Introduction to Income Tax Preparation
Provides 9 hours of interactive computer-based training using the IRS-approved Tax Wise federal/state income tax preparation software, under the supervision of a qualified instructor for the SLO County VITA Coalition free Income Tax Assistance program. Students must also enroll in Introduction to Income Tax Preparation and Income Tax Preparation Internship of the Income Tax Preparation certificate program.
Repeatable.

512 INTRODUCTION TO TAX PREPARATION III - INTERNSHIP
0.0 hours laboratory per week
Provides 36 hours of supervised basic federal/state income tax return preparation utilizing TaxWise software for families and individuals earning less than $40,000 per year as part of the SLO County VITA Coalition free Income Tax Assistance program. Students must also enroll in Introduction to Income Tax Preparation and Introduction to Income Tax Preparation Software of the Income Tax Preparation certificate program.
Repeatable.

CHEMISTRY [CHEM]

193 CHEMISTRY SPECIAL TOPIC
(4.0 to 0.5)
(Formerly CHEM 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

201A GENERAL COLLEGE CHEMISTRY
(Formerly CHEM 1A)
7.0 hours per week: (4.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MATH 127, MATH 127SI or its equivalent with a grade of C or better and CHEM 210, High School Chemistry or equivalent with a grade of C or better.
Prepares the first semester of a one-year course in the fundamental principles of chemistry. Topics covered include kinetic-molecular treatment of gases, atomic structure and the periodic law, thermochemistry, chemical bonding, correlation of structure with properties, quantitative relationships in chemical reactions, chemical formulas and equations. Laboratory work includes a study of precision and accuracy, standard methods of gravimetric and volumetric analysis, and some computer acquisition and analysis of data.
Transfer: CSU; UC.

201B GENERAL COLLEGE CHEMISTRY
(Formerly CHEM 1B)
7.0 hours per week: (4.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CHEM 201A with a grade of C or better
A continuation of Chemistry 201A with particular reference to the periodic classification of the elements and the laws of chemical equilibrium as illustrated by the qualitative scheme of analysis. Topics covered will include chemical kinetics, thermodynamics, aqueous equilibria, free energy entropy, electrochemistry, coordination chemistry, nuclear and organic chemistry. Laboratory work will include quantitative work as well as a qualitative scheme of analysis for cations and anions and some computer acquisition and analysis of data.
Transfer: CSU; UC.

201X APPLIED PROBLEMS FOR GENERAL CHEMISTRY
1.0 hours lecture per week
Associate Degree Applicable
Corequisite: CHEM 201A
Supplements CHEM 201A to further develop general chemistry skills and
conceptual understanding. Provides the opportunity for additional assistance in developing and mastering problem-solving abilities.  
Repeatable 2 times.  
Transfer: CSU.

210  INTRODUCTORY CHEMISTRY  (4.0)  
(Formerly CHEM 10)  
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: MATH 123, MATH 123SI or equivalent, with a grade of C or better  
Provides a survey of chemistry and chemical laboratory techniques and methods, including a survey of important chemical principles, a description of the elements, and their compounds.  
Transfer: CSU; UC (For UC, no credit if taken after CHEM 201A).

210FL  INTRODUCTORY CHEMISTRY WITH FACILITATOR ASSISTED LEARNING  (4.0)  
(Formerly CHEM 10FL)  
7.0 hours per week: (3.0 hours lecture, 4.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: MATH 123, MATH 123SI or equivalent  
Provides an introduction to chemistry and chemical laboratory techniques and methods, including a survey of important chemical principles and a description of the elements and their compounds. One lab hour per week will utilize Facilitator Assisted Learning to practice problem solving.  
Transfer: CSU; UC (For UC, no credit if taken after CHEM 201A).

211  INTRODUCTORY ORGANIC/BIOCHEMISTRY  (4.0)  
(Formerly CHEM 11)  
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: CHEM 210 or equivalent  
Provides a semester course of organic and biochemistry. The classification, structure, reactions, bioenergetics, biosynthesis, and chemical communication of organic compounds are studied. In the laboratory, techniques and types of reactions are studied.  
Transfer: CSU; UC (For UC, maximum credit of one course between CHEM 211 and CHEM 212A).

212A  ORGANIC CHEMISTRY  (5.0)  
(Formerly CHEM 12A)  
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: CHEM 210B with a grade of C or better  
Provides the first semester of a one-year course in organic chemistry. The structure and physical properties of the aliphatic, alicyclic and aromatic compounds are correlated with attention to nomenclature and reaction mechanisms. The concepts of stereochemistry, nucleophilic substitution, electrophilic addition and spectroscopy will be introduced. In the laboratory, separation techniques and synthesis reactions will be performed.  
Transfer: CSU; UC (For UC, maximum credit of one course between CHEM 211 and CHEM 212A).

212B  ORGANIC CHEMISTRY  (5.0)  
(Formerly CHEM 12B)  
9.0 hours per week: (3.0 hours lecture, 6.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: CHEM 212A with a grade of C or better  
Provides the second semester of a one-year course in organic chemistry. The study of reaction types and mechanisms will be correlated with structures. In addition, carbohydrates, fats, proteins and nucleic acids will be studied in conjunction with certain cellular processes. Organic synthesis, structural features, and literature materials will be studied.  
Transfer: CSU; UC.

243  FACILITATOR ASSISTED LEARNING CHEMISTRY SEMINAR  (0.5)  
(Formerly CHEM 43)  
9.0 hours lecture per week  
Associate Degree Applicable  
Develops interpersonal skills, understanding of the learning process, and effectiveness as a facilitator. Seminar prepares students to facilitate in their subject area.  
Repeatable 1 time.  
Transfer: CSU.

244  FACILITATOR ASSISTED LEARNING PRACTICUM: CHEMISTRY  (1.0)  
(Formerly CHEM 44)  
1.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: CHEM 210 or CHEM 210FL  
Provides practical applications of facilitator assisted learning (FL) in small groups of chemistry students.  
Repeatable 3 times.  
Transfer: CSU.

247  INDEPENDENT STUDIES: CHEMISTRY  (2.0 to 0.5)  
(Formerly CHEM 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.  
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of chemistry under the direction of an instructor.  
Repeatable 3 times.  
Transfer: CSU.

CITIZENSHIP [CIT]

693  CITIZENSHIP SPECIAL TOPIC  (0.0)  
(Formerly CIT 693)  
Examines a special topic in the field of study related to the discipline offering this course.

COMMUNICATION STUDIES [COMM]

193  SPEECH SPECIAL TOPIC  (4.0 to 0.5)  
(Formerly SPCM 193)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

201A  PUBLIC ADDRESS  (3.0)  
(Formerly SPCM 201A)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Introduces public speaking with an emphasis on clear, logical organization and effective delivery of expository and persuasive speeches.  
Transfer: CSU; UC.

202A  ORAL INTERPRETATION OF LITERATURE  (3.0)  
(Formerly SPCM 202A)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Provides an introduction to the oral reading of prose, poetry, and dramatic literature. Emphasis is placed on techniques of delivery and literary analysis.  
Transfer: CSU; UC.

210  SMALL GROUP DISCUSSION  (3.0)  
(Formerly SPCM 210)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Provides for an exploration of discussion techniques, personality interaction and group decision making. Students will select and research the topics for class discussions.  
Transfer: CSU.
212  INTERCULTURAL COMMUNICATION (3.0)
(Formerly SPCM 212)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Focuses on the importance of culture and its effect on communication. Examines interactive patterns of communication across various cultural contexts (international, ethnic, gender, and class) and assess different methods and techniques of adapting communication to enhance and overcome the difficulties of intercultural communication. Analyzes how cultures adapt, borrow, communicate verbally and non-verbally, and are represented in a diverse world.
Transfer: CSU; UC.

215  ARGUMENTATION AND DEBATE (3.0)
(Formerly SPCM 215)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Building, defending, and refuting arguments in formal and informal settings. Evaluation and use of evidence, reasoning, and sources. Emphasis on oral advocacy and debate skills such as organization, refutation, cross examination, and audience adaptation. Students will debate and communicate arguments orally.
Transfer: CSU; UC.

247  INDEPENDENT STUDIES: SPEECH (2.0 to 0.5)
(Formerly SPCM 247)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of speech under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

COMPUTER APPL/OFFICE ADMINISTRATION (CAOA)

120A  BEGINNING COMPUTER KEYBOARDING AND DOCUMENT PROCESSING (3.0)
(Formerly CAOA 20A)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Designed for all students whose keyboarding skill will be primary and/or secondary to their vocation and/or for personal use. Provides basic keyboarding skills by touch, using a microcomputer with a 10-key pad. Includes basic formatting instructions for letters, tables, and reports.

120B  INTERMEDIATE COMPUTER KEYBOARDING AND DOCUMENT PROCESSING (3.0)
(Formerly CAOA 20B)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 120A or ability to type 30 words per minute
Advisory: CAOA 246 or CAOA 251A, CAOA 251B and CAOA 251C.
Designed for all students whose keyboarding skill will be primary and/or secondary to their vocation and/or personal use. Provides the primary purposes of building speed and accuracy and arranging letters, memos, reports, business forms and tables in proper format.

120S  SPEED AND ACCURACY COMPUTER KEYBOARDING (2.0)
(Formerly CAOA 20S)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Ability to type 20 words per minute or successful completion of CAOA 120A.
Increases skills in typing speed and accuracy. Emphasizes keyboarding basics through keystoking analysis and corrective drills.

123  BUSINESS ENGLISH (3.0)
(Formerly CAOA 23)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Provides an essential course in the writing of sentences and paragraphs necessary to prepare business communications including email messages, memos, letters, and short reports. Introduces principles and correct application of English grammar, style, word usage, language structure, punctuation and sentence construction.

125  BUSINESS CALCULATIONS (1.0)
(Formerly CAOA 25)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Provides students with a functional knowledge of the computer numeric keypad by touch with speed and accuracy using industry standards for data entry. Includes solving various types of problems to meet employment testing standards.

126  VOICE RECOGNITION SOFTWARE WITH DOCUMENT APPLICATION (3.0)
(Formerly CAOA 26)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Uses voice-recognition software in place of the computer keyboard to create documents and navigate the Internet. Covers dictation procedures and voice commands to input text, access program menus, and activate keyboard commands. Uses voice dictation to create e-mail messages, memorandums, letters, and other business documents. Reviews punctuation, capitalization, number usage, and word usage principles in the context of creating business documents by voice.

128  OFFICE TECHNOLOGY AND TELECOMMUNICATIONS (3.0)
(Formerly CAOA 28)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces typical office routines and responsibilities: principles, practices, and terminology as applied to most common filing methods; business forms; record keeping; office automation; communication and bank services; telephone procedures; human relations; telecommunications; and job securing processes.

129  COMPUTER APPLICATIONS/OFFICE ADMINISTRATION INTERNSHIP (3.0)
(Formerly CAOA 29)
8.0 hours per week: (0.5 hours lecture, 7.5 hours laboratory)
Associate Degree Applicable
Provides students an opportunity to experience the responsibilities of an office employee in a business setting.

147  INDEPENDENT STUDIES: COMPUTER APPLICATIONS/ OFFICE ADMIN. (2.0 to 0.5)
(Formerly IND 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Computer Applications/Office Administration under the direction of an instructor.
Repeatable 3 times.
153 ESSENTIALS OF MS PUBLISHER
(Formerly CAOA 53)
2.0 hours lecture per week
Associate Degree Applicable
Introduces the basics of desktop publishing using MS Publisher. Provides an opportunity for the student to use graphic design and layouts to enhance messages with predefined layouts, programmed guidance through the creation process; and, the ability to personalize, change, completely re-design from basics. Repeatable 1 time.

154 ESSENTIALS OF MS OUTLOOK
(Formerly CAOA 54)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: CAOA 266.
Introduces the computer user to an electronic desktop information management (DIM) system; a central location from which to create, view, and organize all computer information. Simplifies organizational tasks, journal entries, works with Web addresses by allowing the storage, management and navigation to web sites.
Repeatable 1 time.

156 TEST PREP FOR MICROSOFT OFFICE SPECIALIST (MOS) CERTIFICATION
(Formerly CAOA 56)
4.5 hours lecture per week
Associate Degree Applicable
Provides students with the opportunity to become a Specialist in the Microsoft office programs (Word, Excel, Powerpoint, Access or Outlook.) Includes unlimited review and practice tests along with test-taking strategies. Upon completion of class, student will be prepared to take MOS certification exams.
Repeatable 3 times.

160 MICROCOMPUTER OPERATIONS
(Formerly CAOA 60)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 120A, CAOA 162 or ability to type 25 words per minute
Advisory: ENGL 156.
Provides an overview of computer hardware, software, and operating system concepts used on computer systems. Students will use a computer to execute problem solving exercises using the operating system. Students will be able to customize the start-up of the operating system and will be able to optimize the use of the operating system.

162 INTRODUCTION TO BEGINNING COMPUTER KEYBOARDING
(Formerly CAOA 62)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Introduces typing fundamentals, machine functions, keyboard use, and speed and accuracy drills. Designed to develop a minimum typing speed of 20 words a minute.

167 POWERPOINT
(Formerly CAOA 67)
1.0 hour lecture per week
Associate Degree Applicable
Prerequisite: CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: Eligibility for ENGL 156.
Introduces the functions of the PowerPoint program, enabling the production of high-quality output for presentation to an audience. Includes delivering web presentations.
Repeatable 1 time.

168A PHOTOSHOP-LEVEL 2: BUSINESS APPLICATIONS
(Formerly CAOA 68A)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Presents image-editing basics for amateur photographers and photo hobbyists. Provides tools and features for users to touch up and enhance photos from digital cameras or scanners; create original images with paintbrushes, textures and special effects; merge photos into panoramas; and other image editing tasks.

172 PHOTOSHOP ELEMENTS
(Formerly CAOA 72)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Provides an overview of the structure and operation of Adobe Photoshop Elements. Emphasizes the features of the program, focusing on image editing and retouching, basic and advanced techniques for converting images into various formats, including saving and sharing images.

173 ADOBEacroBAT
(Formerly CAOA 73)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Presents primary instruction in the use of Adobe Acrobat Professional. Students learn how to create Adobe PDF files from: Microsoft Office programs, popular authoring programs, image files and Web pages. In addition, students will learn reviewing and commenting on existing PDF files; customizing output quality by compressing and reducing file sizes; adding signatures and security to documents, converting paper forms to interactive online forms; creating multi-media presentations that include sound files. Course also teaches using Adobe Live Cycle Designer to create interactive forms from scratch.

193 COMPUTER APPLICATIONS/OFFICE ADMINISTRATION SPECIAL TOPIC
(Formerly CAOA 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

227 BUSINESS COMMUNICATIONS
(Formerly CAOA 27)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: CAOA 123
Transfer: CSU.
Covers effective business communication. Covers general areas of grammar mechanics and sentence structure. Emphasis is on teaching students how to write effective business messages, both in formal and informal settings. This course covers the basics of writing business letters, memorandums, and reports, as well as the rules of etiquette and professionalism in the workplace.

246 BEGINNING WORD PROCESSING MICROSOFT WORD
(Formerly CAOA 46)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: Ability to type 35 words per minute
Transfer: CSU.
Introduces basic operations and components of a microcomputer and the Microsoft Word word processing program. Includes text entry, formatting, locating, editing, printing, fonts, writing tools, tabs, merging, headers/footers, and footnotes/endnotes.
Repeatable 1 time.

250 ADVANCED WORD PROCESSING: MICROSOFT WORD
(Formerly CAOA 50)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 246
Transfer: CSU.
Introduces advanced operations of word processing. Emphasizes Microsoft Word’s macros, hyphenation, bookmarks, borders, clip art. Draw program, WordArt, Equation Editor, World Wide Web, home pages, hyperlinks, tables, charts, columns, styles, sort and select, outlines, fill-in form templates, table of contents, and index features.
Repeatable 1 time.
251A BEGINNING WORD PROCESSING MODULE I
(Formerly CAOA 51A)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 120B or ability to type 35 words per minute
Advisory: ENGL 156.
Introduces basic operations and components of a microcomputer and the word
processing program. Includes text entry, editing, formatting, spell checking,
and printing functions.
Repeatable 1 time.
Transfer: CSU.

251B BEGINNING WORD PROCESSING MODULE II
(Formerly CAOA 51B)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 120B or ability to type 35 words per minute and CAOA 251A
or the basic knowledge of the word processing program
Advisory: ENGL 156.
Introduces special features of the word processing program. Includes format-
ting, tabs, merging, multiple page documents, headers and footers, footnotes
and endnotes, and find and replace.
Repeatable 1 time.
Transfer: CSU.

251C BEGINNING WORD PROCESSING MODULE III
(Formerly CAOA 51C)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 120B or ability to type 35 words per minute and CAOA 251A
or the basic knowledge of the word processing program
Advisory: ENGL 156.
Introduces special features of the word processing program. Includes creating
tables, columns, framing and borders, WordArt or TextArt, and draw programs.
Repeatable 1 time.
Transfer: CSU.

252 COMPUTERIZED ACCOUNTING USING QUICKBOOKS PRO
(Formerly CAOA 52)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: BUS 201A or BUS 251.
Provides students familiar with accounting concepts the knowledge, skills, and
practice needed to use microcomputers for accounting applications. Includes
inputting and electronically managing general journal, specialized journals,
financial statement analysis, payroll, inventory, accounts receivable, accounts
payable, depreciation, and other accounting applications. Provides training
for entry-level computerized bookkeepers, small business owners, and students
pursuing further accounting courses.
Repeatable 1 time.
Transfer: CSU.

261 INTRODUCTION TO SPREADSHEETS
(Formerly CAOA 61)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: Eligibility for ENGL 156.
Introduces the basics of an electronic spreadsheet program. Provides hands-on
experience to create the various functions of spreadsheets, macros, databases,
and charts. Learn to analyze, identify, and apply the principles needed to apply
these various functions.
Transfer: CSU.

264 INTRODUCTION TO DATABASE MANAGEMENT
(Formerly CAOA 64)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: Eligibility for ENGL 156.
Introduces the basics of database management by implementing simple
databases. Includes creating, querying, sorting, indexing, and manipulating
a database file and generating reports and labels. Create custom screens, work
with multiple database files, and work with advanced command and report
structures applying the knowledge and skills acquired in this course.
Transfer: CSU.

265 ADOBE INDESIGN: BUSINESS APPLICATIONS
(Formerly CAOA 65)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents primary instruction in the use of Adobe InDesign, a design-oriented
publishing tool. Create documents and integrate text and graphics to produce
files that may be printed inhouse, printed commercially, or published to a web
site.
Transfer: CSU.

266 INTRODUCTION TO COMPUTER BASICS
(Formerly CAOA 66)
3.0 hours per week: (2.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Covers the basics of the computer’s Windows operating system. Includes work-
ing with folders and files, customizing the operating system environment, using
a browser to explore and search the World Wide Web.
Transfer: CSU.

268 INTRODUCTION TO PHOTOSHOP: BUSINESS APPLICATIONS
(Formerly CAOA 68)
3.0 hours per week
Associate Degree Applicable
Advisory: CAOA 162, CAOA 120A or ability to type 25 words per minute.
Presents the basic components of image editing using Adobe Photoshop includ-
ing color management, image formats, and image creation. Concentrates on
the Photoshop environment and the use of selections, layers, masks, channels,
paths, type, painting tools, blending modes, and filters. Projects include
compositing, retouching, and creating images for both the print process and
web publishing.
Repeatable 3 times.
Transfer: CSU.

269 INTRODUCTION TO WEB PUBLISHING: DREAMWEAVER
(Formerly CAOA 69)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CAOA 162 OR CAOA 120A or ability to type 25 words per minute
and manage personal computer files. LIBT 207 and CAOA 268.
Introduces Web publishing using Macromedia Dreamweaver. Includes web
design terms, techniques and publishing issues; use of Dreamweaver software for
Website creation, editing and publishing; and the use of graphic image editing
techniques in relation to Web publishing.
Repeatable 1 time.
Transfer: CSU.

270 INTERMEDIATE WEB PUBLISHING: DREAMWEAVER
(Formerly CAOA 70)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 269 or equivalent.
Advisory: CAOA 268, CAOA 264; LIBT 207.
Presents features of Dreamweaver used as a medium to plan and update simple
database driven websites. The student will become familiar with this application's interactive form elements, implement recordsets, and use various server and data behaviors for back-end programming models. Students will create e-commerce and e-marketing websites dedicated to business enterprises.

Repeatable 1 time.
Transfer: CSU.

270A INTRODUCTION TO DATABASE MANAGEMENT -MODULE I (1.0)
(Formerly CAOA 70A)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of database management. Includes creating and manipulating a database file, and creating and modifying custom forms.
Repeatable 1 time.
Transfer: CSU.

270B INTRODUCTION TO DATABASE MANAGEMENT MODULE II (1.0)
(Formerly CAOA 70B)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 270A and CAOA 162, CAOA 120 or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of database management. Includes creating and modifying select queries and implementing one-to-many relationships within a database.
Repeatable 1 time.
Transfer: CSU.

270C INTRODUCTION TO DATABASE MANAGEMENT MODULE III (1.0)
(Formerly CAOA 70C)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 270B and CAOA 162, CAOA 120 or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of database management. Create many-to-many relationships, create a main form and subform, use cascade update and cascade delete, create parameter query, use aggregate functions, and use macros.
Repeatable 1 time.
Transfer: CSU.

271 USING FLASH FOR BUSINESS APPLICATIONS (3.0)
(Formerly CAOA 71)
5.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Advisory: CAOA 120A, CAOA 162 or CAOA 266 or LIBT 116, ART 265, or equivalent knowledge.
Introduces the basics of maintaining content for interactive websites. Learn to maintain an engaging interface using text, graphics, moving pictures, and sound for enhancing business, marketing or personal e-commerce websites.
Repeatable 1 time.
Transfer: CSU.

271A INTRODUCTION TO SPREADSHEETS-MODULE I (1.0)
(Formerly BUS 71A)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of an electronic spreadsheet program. Provides hands-on experience to create formulas and to manipulate multiple workbooks.
Repeatable 1 time.
Transfer: CSU.

271B INTRODUCTION TO SPREADSHEETS-MODULE II (1.0)
(Formerly CAOA 71B)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 271A and CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of an electronic spreadsheet program. Includes formatting, page set-up, and printing tips and techniques. Learn to create charts and macros, and use lists and built-in functions.
Repeatable 1 time.
Transfer: CSU.

271C INTRODUCTION TO SPREADSHEETS-MODULE III (1.0)
(Formerly CAOA 71C)
4.5 hours per week: (2.5 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CAOA 271B and CAOA 162, CAOA 120A or ability to type 25 words per minute
Advisory: ENGL 156.
Introduces the basics of an electronic spreadsheet program. Includes naming cells and ranges, linking and embedding, using templates, and enhancing the worksheet.
Repeatable 1 time.
Transfer: CSU.

520A BEGINNING COMPUTER KEYBOARDING AND DOCUMENT PROCESSING (0.0)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Advisory: ENGL 156.
Designed for all students whose keyboarding skill will be primary and/or secondary to their vocation and/or for personal use. Provides basic keyboarding skills by touch, using a microcomputer with a 10-key pad. Includes basic formatting instructions for letters, tables, and reports.
Repeatable.

520B INTERMEDIATE COMPUTER KEYBOARDING AND DOCUMENT PROCESSING (0.0)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Advisory: CAOA 251A, CAOA 251B and CAOA 251C or CAOA 120A, CAOA 520A, CAOA 246 or ability to type 30 words per minute.
Designed for all students whose keyboarding skill will be primary and/or secondary to their vocation and/or personal use. Provides the primary purposes of building speed and accuracy and arranging letters, memos, reports, business forms and tables in proper format.
Repeatable.

520S SPEED AND ACCURACY COMPUTER KEYBOARDING (0.0)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Advisory: Ability to type 20 words per minute or successful completion of CAOA 120A. Increases skills in typing speed and accuracy. Emphasizes keyboarding basics through keystoking analysis and corrective drills.
Repeatable.

562 INTRODUCTION TO BEGINNING COMPUTER KEYBOARDING (0.0)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Introduces typing fundamentals, machine functions, keyboard use, and speed and accuracy drills. Designed to develop a minimum typing speed of 20 words a minute.
Repeatable.

COURSES

COMPUTER INFORMATION SYSTEMS [CIS]

103 FUNDAMENTALS OF PROGRAMMING FOR THE INTERNET (2.0)
(Formerly CIS 118)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents concepts of writing computer programs for use on the Internet.
Includes techniques for problem analysis, software design, implementation, and verification with particular reference to object-oriented programming.

**106 SERVER-SIDE PROGRAMMING (4.0)**
(Formerly CIS 106)
12.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory), 6.0 hours laboratory by arrangement
Associate Degree Applicable
Advisory: CIS 103 or 201.
Emphasizes the creation of interactive internet applications using a server-side language. Topics include core features of the language, control structures, functions, arrays, form validation, regular expressions, and database-driven internet applications.

**111 INSTALLING AND MAINTAINING COMPUTER SOFTWARE 2.0)**
(Formerly CIS 111)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents the fundamentals of computer software installation and maintenance. Includes techniques for installing computer applications on various computer platforms. Students will learn how to install and upgrade personal computer software.

**112 TROUBLESHOOTING COMPUTER APPLICATIONS 2.0)**
(Formerly CIS 112)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents the fundamentals of troubleshooting and repair of computer software. The course includes communication strategies and techniques for the diagnosis and repair of malfunctioning applications on various computer platforms. Includes the use of diagnostic tools and vendor services. Intended for students completing an Associate in Science degree in Computer Systems Technician program.
Repeatable 3 times.

**115 VISUAL BASIC FOR INTERNET APPLICATIONS 3.0)**
(Formerly CIS 115)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: CIS 214 or beginning programming language.
Introduces Visual Basic as a tool for creating interactive web pages and linking to business applications. Topics from elementary programming techniques to more advanced subjects such as Active Server Pages and Active Data Objects will be covered.
Repeatable 3 times.

**117 FUNDAMENTALS OF OBJECT-ORIENTED PROGRAMMING FOR TECHNICIANS 2.0)**
(Formerly CIS 117)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents concepts of computer programming using an object-oriented computer programming language. Includes techniques for problem analysis, software design, implementation, and verification with particular reference to object-oriented programming languages.

**123 MICROCOMPUTER PERIPHERALS 2.0)**
(Formerly CIS 123)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Present the fundamentals of computer peripheral devices. Students will learn how to install and troubleshoot various internal and external computer system components.

**126 NETWORK OPERATING SYSTEMS CONCEPTS 4.0)**
(Formerly CIS 126)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CNET 253 or equivalent

Advisory: CNET 260.
Presents the concepts and provides the hands-on training necessary for the installation, configuration, and maintenance of a network based computer operating system. Subjects covered include client operating system installation and configuration, network resource location and access using directory services, managing the configuration database (registry), file systems and applications support. Networking protocols and TCP/IP networking services are examined, along with the above topics, during extensive hands-on exercises on a laboratory network.
Repeatable 3 times.

**128 WINDOWS SERVER ADMINISTRATION 3.0)**
(Formerly CIS 128)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CNET 253
Advisory: CNET 221.
Provides the knowledge and skills necessary to perform network server configuration and administration tasks for a typical business network using the Windows Server operating system. Topics will include: configuring network resources, and Active Directory services, server performance optimization, backup strategies, auditing and monitoring network resources and events.
Repeatable 3 times.

**193 COMPUTER INFORMATION SYSTEMS SPECIAL TOPIC 4.0 to 0.5)**
(Formerly CIS 93)
Associate Degree Applicable
Presents concepts and provides the hands-on training necessary for the installation, configuration, and maintenance of a network based computer operating system. Subjects covered include client operating system installation and configuration, network resource location and access using directory services, managing the configuration database (registry), file systems and applications support. Networking protocols and TCP/IP networking services are examined, along with the above topics, during extensive hands-on exercises on a laboratory network.
Repeatable 3 times.

**201 INTRODUCTION TO COMPUTER SCIENCE 3.0)**
(Formerly CIS 1)
3.0 hours lecture per week
Associate Degree Applicable
Introduces students to the Computer Science discipline. Problem solving and using computers to solve problems. Introduction to computer programming and algorithmic thinking. Survey of the career field.
Transfer: CSU, UC.

**203 IOS DEVELOPMENT I 3.0)**
3.0 hours lecture per week
Associate Degree Applicable
Provides the basics in mobile development for the iOS (iPhone, iPad, iPod, etc) platform. Covers the fundamentals of iOS development, standard development tools and resources, and an introduction to the Objective C language.
Transfer: CSU.

**210 INTRODUCTION TO COMPUTER APPLICATIONS 4.0)**
(Formerly CIS 10)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 156 or eligibility for ENGL 201A
Advisory: CAOA 120A, CAOA 162 or ability to type 25 words per minute.
Introduces computer terminology, relationship between hardware and software, computer operating systems and application software such as word processing, spreadsheet, database management programs, Web features, and linking between application programs.
Transfer: CSU; UC.
### 214 INTRODUCTION TO VISUAL BASIC
(Formerly CIS 114)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MATH 123, MATH 123SI or equivalent
Introduces programming skills necessary to create Microsoft Visual Basic desktop applications. Instructs how to build custom, multiple-form applications incorporating menus, status bars, and custom toolbars. Includes writing code for input field validation and debug applications using debugging tools. Uses standard controls, control arrays, and create controls dynamically. Implements centralized error-handling in applications and creates setup programs to distribute applications.
Transfer: CSU.

### 217 "C" PROGRAMMING LANGUAGE
(Formerly CIS 17)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 217, or CIS 219, or CIS 231, or CIS 214.
Presents basic microprocessor concepts including internal architecture, memory, addressing, and control through the use of assembly language. Students will study the hardware and software interactions. They will gain hands-on experience with assembly language via a computer language interpreter and a software debugger.
Transfer: CSU; UC.

### 218 C# .NET PROGRAMMING
(Formerly CIS 21)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 217, or CIS 219, or CIS 231, or CIS 214.
This course presents the fundamental concepts of object oriented programming using the C# programming language and application development in the “DOT-NET” environment. Concepts include basic C# language syntax and structure, object-oriented design and programming, event handling, user interfaces, elementary data structures, and database connectivity.
Transfer: CSU; UC.

### 219 OBJECT ORIENTED PROGRAMMING - C++
(Formerly CIS 19)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
This course presents the fundamental concepts of object oriented programming using the C++ language. The course includes techniques for problem analysis and software design with algorithmic problem solutions using basic procedural constructs. The course includes an introduction to simple data structures and their relation to software design.
Transfer: CSU; UC.

### 222 INTRODUCTION TO UNIX/LINUX
(Formerly CNET 122)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CNET 253.
Introduces students to the concepts of Unix/Linux operating systems. This course covers the installation, administration, and use of files and directories, operating system and file manipulation, management, shell scripting, and networking services. Advanced concepts include shell scripting, Unix/Linux programming, and security.
Transfer: CSU.

### 224 DATABASE ADMINISTRATION
(Formerly CIS 141)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 221 or CIS 222 or CAOA 264.
Introduces the knowledge and skills required to use, install, configure, administer, and troubleshoot a relational database management system (RDBMS). Topics include constructing and using Structured Query Language (SQL) statements, understanding RDBMS architecture, installing or upgrading a RDBMS, managing storage, managing RDBMS security, backing up and restoring data, managing performance, and implementing high availability.
Repeatable 3 times.
Transfer: CSU.

### 227 WEB SERVER ADMINISTRATION
(Formerly CIS 143)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 221 or CIS 222.
Introduces web servers and the concepts and hands-on training needed to administer a web server. Topics include understanding web server concepts, history, and architecture, installing, configuring, managing, and securing a web server, SSL, encryption, virtual hosting, different caching techniques and URL rewriting.
Repeatable 3 times.
Transfer: CSU.

### 231 FUNDAMENTALS OF COMPUTER SCIENCE I
(Formerly CIS 31)
4.0 hours lecture per week
Associate Degree Applicable
Presents the fundamentals of an engineering approach to software development. Includes techniques for problem analysis and software design, implementation and verification. Includes algorithmic problem solving using basic procedural constructs and solving computational problems requiring an understanding of intermediate algebraic concepts. Introduction to object oriented programs, graphical user interfaces and software engineering.
Transfer: CSU; UC.

### 232 FUNDAMENTALS OF COMPUTER SCIENCE II
(Formerly CIS 32)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: CIS 231
Continues the fundamental concepts of algorithmic problem solving and applications in the engineering of modern computer software using procedural and object-oriented methods and object oriented programming languages. Present the principles of abstract data types, including the specification and implementation of simple abstractions such as stacks, queues and lists. Includes basic searching and sorting algorithms and introduces the analysis of algorithms and recursion.
Transfer: CSU; UC (For UC, both CIS 232 and 233 must be completed in order to receive transfer credits).

### 233 FUNDAMENTALS OF COMPUTER SCIENCE III
(Formerly CIS 33)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: CIS 232
Corequisite: CIS 241
Introduces advanced concepts including: theory, generic programming implementation, applications, and analysis of associated algorithms including lists, stacks, queues, hash tables, trees, and graphs, recursion, iteration, searching, and sorting algorithms and analysis.
Transfer: CSU; UC (For UC, both CIS 232 and 233 must be completed in order to receive transfer credits).

### 240 MICROCOMPUTER ARCHITECTURE & PROGRAMMING
(Formerly CIS 40)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CIS 217 or CIS 231
Advisory: MATH 24A and ENGR 219.
Introduces basic microprocessor concepts including internal architecture, memory, addressing, and control through the use of assembly language. Students will study the hardware and software interactions. They will gain hands-on experience with assembly language via a computer language interpreter and a software debugger.
Transfer: CSU; UC (For UC, both CIS 232 and 233 must be completed in order to receive transfer credits).
debugging tools will be explored.
Transfer: CSU; UC.

241 DISCRETE STRUCTURES (3.0)
(Formerly CIS 41)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 229 and MATH 242 or Math 263 or High School equivalent
Introduction to structures of computer science: numbers, sets, relations, functions and trees. This course includes propositional and predicate logic, applications of predicate logic: preconditions, postconditions, invariants, guards; inductive proofs; applications to verification of algorithms; introduction to complexity of algorithms.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: COMPUTER & INFORMATIONAL SCIENCE (2.0 to 0.5)
(Formerly CIS 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of computer and information science under the direction of an instructor.
Transfer: CSU.

251 INTRODUCTION TO WEB PUBLISHING: FRONTPAGE (3.0)
(Formerly CIS 51)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Overview of the fundamentals of web publishing. This course provides an understanding of web publishing issues and the internet as well as a thorough working knowledge of Microsoft Frontpage.
Transfer: CSU.

COMPUTER & NETWORKING TECH. [CNET]

100 CERTIFICATION PREPARATION AND TESTING (0.5)
1.5 hours laboratory per week
Associate Degree Applicable
Provides students with tools to prepare for and complete popular certification tests such as CompTIA A+, Server+, Net+ and Cisco CCNA as well as others. Test Vouchers may become available through certification providers and testing will be scheduled in-class.
Repeatable 3 times.
Transfer: CSU.

218 WIRELESS NETWORK COMMUNICATION AND ADMINISTRATION (4.0)
(Formerly ETCH 218)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: EET 213.
Includes topics related to wireless networking and communications that address the Certified Wireless Network Administrator (CWNA) certification. This is an introductory course with broad exposure to the wireless communication field. General coverage of wireless transmissions, wireless network administration, and wireless connectivity will be addressed.
Transfer: CSU.

220 MICROCOMPUTER ARCHITECTURE AND PROGRAMMING (2.0)
(Formerly ETCH 220)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 214 and EET 216.
Introduces fundamental concepts involved with upgrading and repairing personal computer systems. Includes topics on the "A+" computer service technician certification. Lectures and labs will cover internal microcomputer operation, operating systems, primary and secondary storage methods (system memory modules and disk drives), adapter cards, serial and parallel ports, and power supplies. Different components and subsystems will be compared and evaluated based on performance specifications and design considerations.
Repeatable 3 times.
Transfer: CSU.

221 OPERATING SYSTEMS CONCEPTS (3.0)
(Formerly CIS 221)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Presents the fundamental structure and functions of computer operating systems: file systems, memory management, interprocess communication, resource scheduling, information sharing and protection. By using the Windows operating system as our principle example, students are prepared to take the Microsoft Certified Professional (MCP) Exam: Installing, Configuring, and Administering Windows.
Transfer: CSU.

235 COMPUTER SYSTEM SECURITY (4.0)
(Formerly CIS 235)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CNET 221 or CNET 122.
Conducts a comprehensive examination of the types of attacks launched against networks and computer system. Teaches students how to use network security products, operating system security features, and other hardware/software based tools to counter these threats.
Transfer: CSU.

253 MICROCOMPUTER FUNDAMENTALS FOR TECHNICIANS (3.0)
(Formerly ETCH 253)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: EET 213.
Introduces fundamental concepts involved with upgrading and repairing personal computer systems. Includes topics on the "A+" computer service technician certification. Lectures and labs will cover internal microcomputer operation, operating systems, primary and secondary storage methods (system memory modules and disk drives), adapter cards, serial and parallel ports, and power supplies. Different components and subsystems will be compared and evaluated based on performance specifications and design considerations.
Transfer: CSU.

254 SERVER MAINTENANCE AND ADMINISTRATION (4.0)
(Formerly ETCH 254)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CNET 253, CIS 121.
Prepares the student for the COMPTIA "SERVERs" computer service technician and Microsoft Server Administration certifications. The course builds on basic concepts taught in the Microcomputer fundamentals and operating system courses. Topics include PC hardware and advanced troubleshooting, new computer architectures, multiple OS's, advanced diagnostic tools, storage devices, RAID controllers, dual processor systems, hard disk recovery, server operating system installation and configuration.
Transfer: CSU.

255 NETWORK CABLING CERTIFICATION (3.0)
(Formerly ETCH 255)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: MATH 123
Addresses topics on the BICSI LEVEL I industry standard network cabling certification test. Presents basic concepts in network cabling and its application to network infrastructure. Basic terminology, cable types, wiring structures, installation factors and techniques will be discussed. LAN topologies, wiring technology, management, and standards will be investigated and applied to lab
practice. Termination techniques for twisted pair and fiber optic cables and connectors will be studied and applied. Fiber optic theory, cable design, and cabling techniques will be investigated. Testing of network cabling and terminations using conductivity, bandwidth, attenuation, and time domain reflectivity will be explored. 

Repeatable 3 times. 
Transfer: CSU.

256 FIBER NETWORK CABLEING CERTIFICATION
(Formerly ETCH 256)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: EET 213, MATH 123.

Presents network connectivity subjects including multi-level BICSI certification topics: Shielded copper cabling and terminations, fiber optic theory, cabling, and termination techniques. Grounding and bonding, performance testing, and inspection of copper and fiber systems will also be covered. 
Repeatable 3 times. 
Transfer: CSU.

260 NETWORKING FUNDAMENTALS
(Formerly CIS 260)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CNET 253.

Provides students with classroom and laboratory experience in current and emerging networking technology. Topics include network terminology and protocols, the OSI and TCP/IP networking models, network topologies and media access control techniques, local area networks (LANs) and internetworking devices (repeaters, hubs, switches, and routers). Special attention is paid to LAN configuration and operation, media types, and IP addressing schemes. 
Transfer: CSU.

261 ROUTER THEORY AND TECHNOLOGY
(Formerly CIS 261)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CNET 260

A course on router technology, router configuration, dynamic routing, and routing protocols. Other topics include Ethernet, Token Ring, and Fiber Distributed Data Interface (FDDI) network architectures, and detailed coverage of Transport Control and Internetworking Protocols (TCP/IP). Students will perform router initialization, configuration, testing, and troubleshooting using console ports, over the network Telnet sessions, and Trivial File Transport Protocol (TFTP) servers. 
Transfer: CSU.

262 SWITCHED AND WIRELESS LANS
(Formerly CIS 262)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CNET 260 Networking Fundamentals

Presents Local Area Network architecture and design, including the Spanning-Tree Protocol and Virtual LANs, integration of switched and wireless technology, and wireless security concepts and configuration. This course continues preparation for the Cisco Certified Network Associate (CCNA)Exam. 
Transfer: CSU.

263 WIDE AREA NETWORKING
(Formerly CIS 263)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CNET 262

Presents concepts and protocols related to Wide Area Network (WAN) management and design. Detailed coverage is devoted to the Point-to-Point Protocol (PPP), Frame Relay, ISDN, DSL, Leased Lines (T1/T3), and Virtual Private Networks (VPNs). Hierarchical WAN design techniques are used in the completion of a Threaded Case Study (TCS). 
Transfer: CSU.
### COURSES

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>175</td>
<td>BASIC HEATING, REFRIGERATION AND AIR CONDITIONING</td>
<td>3.0</td>
<td>3.0</td>
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<td>Associates</td>
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Introduces ENGL 156 or ENGL 165. Introduces residential gas heating, commercial refrigeration, and residential air conditioning. Includes demonstrations and systematic problem solving of electrical and mechanical malfunction.

### 176 BASIC WATER TREATMENT (3.0)
(Formerly CTECH 76)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: MATH 123 or MATH 123SI.
Prepares the student to become a Water Treatment Plant Operator, Grade 1 or Grade 2. Includes the study of plant operation, water sources and treatment, reservoir management, coagulation and flocculation, sedimentation, filtration, disinfection, taste and odor control, and corrosion control.

### 177 WATER DISTRIBUTION SYSTEMS (3.0)
(Formerly CTECH 77)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: MATH 123 or MATH 123SI.
Prepares the student to be an operator for water storage and distribution systems. Provides an understanding of the basic operational and maintenance concepts of water distribution systems. Develops the ability to analyze and solve problems such as tastes and odors, corrosion damage, and system failures when they occur.

### 180A BUILDING CODE I, ARCHITECTURAL DESIGN PROVISIONS (3.0)
(Formerly CTECH 80A)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: CTECH 250 and eligibility for ENGL 165.
Introduction to the Building Code, concentrating on the permit process and fundamental architectural design requirements involving occupancies, maximum allowable area, type of construction, proximity to property lines, exiting, fire protection, disabled access, elevators, and construction safety. This course is the first in a series of two which will familiarize the student with building code provisions relating to the design and construction of residential and commercial structures. The emphasis will be on requirements which limit or specify the building space to be created.
Repeatable.

### 180B BUILDING CODE II, STRUCTURAL DESIGN AND MATERIAL PROVISIONS (3.0)
(Formerly CTECH 80B)
3.0 hours lecture per week
Associate Degree Applicable
Application of the Building Code, concentrating on basic structural requirements for wood, concrete, steel, and masonry construction. The course will cover code provisions for site preparation, foundations, roofing, and interior/ exterior finish materials. This course is the second in a series of two which will familiarize the student with building code provisions relating to the design and construction of residential and commercial structures. The emphasis will be on requirements relating to the structural design of the building and the materials used to create the building space.
Repeatable.

### 181 NATIONAL ELECTRICAL CODE (3.0)
(Formerly CTECH 81)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: CTECH 169 and ENGL 156 or ENGL 165.
Introduces the use of the National Electrical Code. Promotes an understanding of the electrical code necessary to the installation of such systems and the need to safeguard the public through uniformity and safety in building laws.

### 182 UNIFORM PLUMBING AND MECHANICAL CODES (3.0)
(Formerly CTECH 82)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: CTECH 250 and ENGL 156 or ENGL 165. Introduces the use of the Uniform Plumbing and Mechanical Code. Promotes an understanding of the plumbing and mechanical codes necessary to the installation of plumbing and HVAC systems and the need to safeguard the public through uniformity and safety in building laws. Repeatable 1 time.

### 183A COMMERCIAL WIRING AND ELECTRICAL SYSTEMS (3.0)
(Formerly CTECH 83A)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CTCH 169 or 2 years experience in the electrical field.
Prepares the student to become a Commercial Electrical Inspector. Examines the principles and practices of surveying, including the use of the engineer's tape, level, transit, and the use of an EDM (Electronic Distance Measurement). This equipment will be used to perform computations for horizontal and vertical distances, profiles, azimuths and bearings, traverse closures, topographic mapping, earthwork and land grading, and horizontal and vertical curves. Maps and land description also will be discussed.

### 183B INDUSTRIAL WIRING AND ELECTRICAL SYSTEMS (4.0)
(Formerly CTECH 83B)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CTECH 169 or 183A or 2 years experience in the electrical field.
Studies the responsibilities and knowledge required for professional industrial electricians working under current state certification requirements including: the industrial electrical service, power and lighting, feeder bus systems, panel boards, fiber optics and other high bandwidth data cabling systems, harmonics and filtering, hazardous locations, power factor, ballasts, transformers, switching systems, grounding and bonding, installation techniques, and applying code requirements to all aspects of industrial wiring systems. Course developed in conjunction with the California Apprenticeship Council's standards for the State Electrical Certification Examination. Repeatable 3 times.

### 193 TECHNICAL CAREER PREPARATION IN CONSTRUCTION (4.0 to 0.5)
(Formerly CTECH 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

### 195 TECHNICAL CAREER PREPARATION IN CONSTRUCTION (1.0)
(Formerly CTECH 95)
1.0 hours lecture per week
Associate Degree Applicable
Overview of construction careers with a focus on preparing for the job market. Includes discussion of career opportunities in construction, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the construction industry.
Repeatable 2 times.

### 201 PLANE SURVEYING (3.0)
(Formerly ENGR 201)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MATH 229 or equivalent
Introduces the principles and practices of surveying, including the use of the engineer's tape, level, transit, and the use of an EDM (Electronic Distance Measurement). This equipment will be used to perform computations for horizontal and vertical distances, profiles, azimuths and bearings, traverse closures, topographic mapping, earthwork and land grading, and horizontal and vertical curves. Maps and land description also will be discussed.
Transfer: CSU; UC.
247 INDEPENDENT STUDIES: CONSTRUCTION TECHNOLOGY (2.0 to 0.5)
(Formerly CTECH 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the technical field in which the study is to be undertaken.
Provides an opportunity for in-depth study or practicum experience by an individual student in a selected topic in the construction technology area with support and direction from an instructor.
Repeatable 3 times.
Transfer: CSU.

250 INTRODUCTION TO CONSTRUCTION (3.0)
(Formerly CTECH 50)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156 or ENGL 165.
Introduces basic concepts from introduction to solar technology (EET 284), solar systems, cells modules and arrays, batteries, charge controllers and inverters. Addresses types of woods, both hard and soft. Deals with methods of fastening and types of fasteners and joints. Emphasizes general power tools such as tablesaw, jointer, planer, drill press, sander, shaper and lathe. Safety, capabilities and techniques are covered.
Repeatable 1 time.
Transfer: CSU.

255 BASIC WOODWORKING (3.0)
(Formerly CTECH 55)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduces advanced wood and cabinet making skills. Examines the types of woods, plywoods, and composites used in European and faceframe cabinet systems. Includes methods of fastening cabinet joints, cabinet design, and production techniques.
Repeatable 1 time.
Transfer: CSU.

284 INTRODUCTION TO SOLAR TECHNOLOGY (3.5)
5.5 hours per week: (2.5 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: EET 213
Introduces basic concepts in solar energy including: the photovoltaic industry, solar radiation and electrical power, site surveying and planning, components of solar systems, cells modules and arrays, batteries, charge controllers and inverters. Addresses topics on the NABCEP PV entry level certification exam.
Repeatable 3 time.
Transfer: CSU.

285 SOLAR TECHNOLOGY DESIGN AND CONSTRUCTION (3.5)
5.5 hours per week: (2.5 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: EET 284
Builds on basic concepts from introduction to solar technology (EET 284), expanded topics include: solar system sizing, mechanical and electrical integration, utility interconnection, permitting and inspection, commissioning, maintenance, troubleshooting and economical analysis. Addresses topics on the NABCEP PV entry level certification exam.
Repeatable 3 times.
Transfer: CSU.

287 INTRODUCTION TO GREEN TECHNOLOGY (4.0)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduces students to Green Building technologies. Investigates environmental impact on society, conservation fundamentals, energy management concepts, basics of retrofits, energy efficient building techniques and solar and wind energy principles.
Repeatable 3 times.
Transfer: CSU.

555 BASIC WOODWORKING (0.0)
(Formerly CTECH 555)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Introduces basic residential wiring theory, installation techniques, plan reading and estimating methods.
Repeatable.

568 RESIDENTIAL PLUMBING (0.0)
(Formerly CTECH 568)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Introduces basic residential plumbing theory, installation techniques, plan reading and estimating methods.
Repeatable.

569 RESIDENTIAL WIRING (0.0)
(Formerly CTECH 569)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Advisory: CTCCH 250
Introduces basic residential wiring skills. Includes basic electrical theory, installation techniques, basic plan reading, estimating and wiring methods.
Repeatable.

570 ADVANCED WOODWORKING (0.0)
(Formerly CTECH 570)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Prerequisite: CTCCH 255, CTCCH 2555 or consent of instructor
Introduces advanced wood and cabinet making skills. Examines the types of woods, plywoods, and composites used in European and faceframe cabinet systems. Includes methods of fastening cabinet joints, cabinet design, and production techniques.
Repeatable.

571A HOMEBUILDING - LAYOUT AND CONCRETE I (0.0)
(Formerly CTECH 571A)
12.0 hours per week: (4.0 hours lecture, 8.0 hours laboratory)
Advisory: CTCCH 250
Provides basic instruction in the skills required for employment in building construction. Includes instruction in tool, equipment, and construction site safety, surveying, blueprint reading, concrete formwork, backhoe operations, and concrete flatwork.
Repeatable.

571B HOMEBUILDING - LAYOUT AND CONCRETE II (0.0)
(Formerly CTECH 571B)
12.0 hours laboratory per week
Prerequisite: CTCCH 171A, CTCCH 571A or consent of instructor
Provides instruction to develop speed and skill through repetition and increasing responsibility for employment in building layout and concrete construction.
Repeatable.

572A HOMEBUILDING - FLOOR AND WALL FRAMING (0.0)
(Formerly 572A)
12.0 hours per week: (4.0 hours lecture, 8.0 hours laboratory)
Advisory: CTCCH 250
Provides basic instruction in the skills required for employment in building construction. Includes instruction in rough carpentry - floor systems, wall framing, ceiling joists, exterior siding, shear walls, trusses, windows and roof sheathing, and fireplaces.
Repeatable.

572B HOMEBUILDING - FLOOR AND WALL FRAMING II (0.0)
(Formerly CTECH 572B)
12.0 hours laboratory per week
Prerequisite: CTCCH 172A, CTCCH 572A or consent of instructor
Provides instruction to develop speed and skill through repetition and inreas-
ing responsibility for employment in rough carpentry including floor systems, wall framing, exterior siding, shear walls, trusses, windows, roof sheathing, and fireplaces. Repeatable.

573A HOMEBUILDING - ROOF FRAMING I (0.0)
(Formerly CTECH 573A)
12.0 hours per week: (4.0 hours lecture, 8.0 hours laboratory)
Advisory: CTCH 250.
Introduces types of roof and stair systems, roofing, estimating live and dead loads, and specialized structural systems. Repeatable.

573B HOMEBUILDING - ROOF FRAMING II (0.0)
(Formerly CTECH 573B)
12.0 hours laboratory per week
Prerequisite: CTCH 173A, CTCH 573A or consent of instructor
Provides an opportunity to develop speed and skill framing roof systems, stair systems and specialized structural systems. Repeatable.

574A HOMEBUILDING - FINISH CARPENTRY I (0.0)
(Formerly CTECH 574A)
12.0 hours per week: (4.0 hours lecture, 8.0 hours laboratory)
Advisory: CTCH 250.
Provides basic instruction in the skills required to install interior and exterior doors, cabinet systems, interior and exterior trim, including stair cases, wainscot, decks and railings. Also covers basic millwork and machine use for making special moldings. Repeatable.

574B HOMEBUILDING - FINISH CARPENTRY II (0.0)
(Formerly CTECH 574B)
12.0 hours laboratory per week
Advisory: CTCH 174A or CTCH 574A.
Course provides an opportunity to develop speed and skill in installing doors, installing cabinets, installing base, window, closet and wall trim, decks, railings, and interior finish. Repeatable.

COUNSELING [COUN]

140 COUNSELING: PERSONAL FINANCE (1.0)
1.0 hours lecture per week
Associate Degree Applicable
Promotes financial responsibility and the application of basic financial skills to everyday money matters. Emphasis on learning basic banking skills, including balancing a checkbook, credit card use, and the difference between necessities versus wants. Students will learn techniques and practices that will contribute to financial security.

150 MATH ANXIETY (2.0)
(Formerly COUNS 50)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in MATH 123, MATH 123SI or equivalent
Presents cognitive and behavioral techniques to reduce math anxiety as well as effective strategies for solving mathematical problems at the elementary algebra level.

152 ORIENTATION TO COLLEGE FOR RE-ENTRY STUDENTS (1.0)
(Formerly COUNS 52)
2.0 hours lecture per week
Associate Degree Applicable
Directed toward the adult re-entry student, 25 years or older. Presents self exploration, goal setting, and developing a student education plan. Covers issues of time and stress management, value clarification, problem solving, decision making, college resources, and support systems.

156 STUDENT SUCCESS (1.0)
(Formerly COUNS 56)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Prepares students for a successful college experience. College skills will include the understanding of campus/ community diversity, communication, financial planning for college, utilizing campus/community resources, setting educational priorities to include looking at major and certificate programs, and understanding of college rules, regulations, and policies.

158 GREAT START TO COLLEGE (0.5)
(Formerly COUNS 58)
0.5 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of “Great Start” Assessment and Orientation Workshop
Advisory: ENGL 099.
Introduces new students to Cuesta College and prepares them for their first semester. Students attend a “Great Start” Assessment Testing and Orientation workshop to understand the requirements for their educational goal of transfer, Associate Degree or certificate, as well as policies and procedures of the college. Students participate in student success workshops and complete a Student Education Plan (SEP).

160 PLANNING FOR TRANSFER (0.5)
(Formerly COUNS 60)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Designed to provide students with information and resources to facilitate a smooth transfer from Cuesta College to four year colleges and universities. Students learn to research transfer possibilities, find a school which fits their academic and personal needs, and develop a Student Educational Plan to plan transfer goal(s).

254 CAREER EXPLORATION (1.0)
(Formerly COUNS 54)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Assesses the student's interests, skills, personality, values, and includes career research in a planning process. Applies assessment information to occupational possibilities and choice of college majors. Transfer: CSU.

261 CAREER SKILLS AND JOB SHADOWING (1.0)
(Formerly COUNS 61)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces career readiness concepts through exploration of personal work attitudes and skills, study of job search techniques, and job shadowing experiences. Transfer: CSU.

CRIMINAL JUSTICE [CJ]

193 CRIMINAL JUSTICE SPECIAL TOPIC (4.0 to 0.5)
(Formerly CJ 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

202 INTRODUCTION TO CRIMINAL JUSTICE (3.0)
(Formerly CJ 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Prepares students for a successful college experience. College skills will include the understanding of campus/ community diversity, communication, financial planning for college, utilizing campus/community resources, setting educational priorities to include looking at major and certificate programs, and understanding of college rules, regulations, and policies.
system and society as a whole. Studies the origin, development and application of crime causation theories. Includes exploration and analysis of the roles, structure, and function of criminal justice agencies. Integrates an examination of the criminal justice system with a critical analysis of the system as an instrument of societal control and change.

**Transfer: CSU; UC.**

**204 PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM** (3.0)

(Formerly CJ 4)

3.0 hours lecture per week

Associate Degree Applicable

Presents legal processes, responsibilities, and interrelationships of each component of the justice system. Includes a review of case and common law, pertinent court decisions, case methodology and research.

**Transfer: CSU.**

**206 CONCEPTS OF CRIMINAL LAW** (3.0)

(Formerly CJ 6)

3.0 hours lecture per week

Associate Degree Applicable

Presents elements of the penal code and general laws about crimes against persons, property, standards of morality, and the state.

**Transfer: CSU; UC.**

**208 LEGAL ASPECTS OF EVIDENCE** (3.0)

(Formerly CJ 8)

3.0 hours lecture per week

Associate Degree Applicable

Presents kinds of evidence and principles of admissibility, witness competency, privileged communications, and hearsay. Includes the procedures to be followed in evidence collection and preservation.

**Transfer: CSU.**

**210 PRINCIPLES OF INVESTIGATION** (3.0)

(Formerly CJ 10)

3.0 hours lecture per week

Associate Degree Applicable

Presents investigation fundamentals of crime scene search, collecting/recording evidence, interviews and interrogation. Covers procedures used in investigating various kinds of criminal activity.

**Transfer: CSU.**

**212 JUVENILE JUSTICE PROCEDURES** (3.0)

(Formerly CJ 12)

3.0 hours lecture per week

Associate Degree Applicable

Presents the organization, functions, and jurisdiction of juvenile justice agencies. Covers juvenile processing and detention, case disposition, statutes, and court procedures.

**Transfer: CSU.**

**213 CONCEPTS OF ENFORCEMENT SERVICES** (3.0)

(Formerly CJ 13)

3.0 hours lecture per week

Associate Degree Applicable

Presents concepts, responsibilities, and techniques of police patrol in handling ordinary police occurrences, including public service responsibilities.

**Transfer: CSU.**

**224 POLICE-COMMUNITY RELATIONS** (3.0)

(Formerly CJ 24)

3.0 hours lecture per week

Associate Degree Applicable

Advisory: ENGL 156.

Explores the complex relationships between the community and the justice system. Examines the role that race, ethnicity, gender, sexual orientation, social class and culture play in the administration of justice. Presents the challenges of administering justice within a diverse multicultural population and imparts cultural knowledge, awareness and competence.

**Transfer: CSU; UC.**

**226 INVESTIGATIVE REPORT WRITING** (2.0)

2.0 hours lecture per week

Associate Degree Applicable

Advisory: ENGL 156.

Develops proper investigative report writing skills. Provides practice in drafting investigative reports that are used in the administration of justice. Emphasis is on proper use of terminology, attention to detail, clarity, organization, and accuracy in report writing.

**Repeatable 2 times.**

**Transfer: CSU.**

**247 INDEPENDENT STUDIES: CRIMINAL JUSTICE** (2.0 to 0.5)

(Formerly CJ 47)

6.0 hours laboratory per week

Associate Degree Applicable

Prerequisite: The student must have completed preparatory course work in the technical field in which the study is to be undertaken.

Provides an opportunity for in-depth study or practicum experience by an individual student in a selected topic of criminal justice under the direction of an instructor.

**Repeatable 3 times.**

**Transfer: CSU.**

**CULINARY ARTS [CUL]**

**100 CULINARY KITCHEN BASICS** (0.5)

0.5 hours lecture per week

Associate Degree Applicable

Introduces students to kitchen and pantry basics such as basic knife skills, professional safety and sanitation guidelines, culinary math, and general kitchen and pantry lay-out, guidelines, and procedures.

**101 WHOLE GRAINS COOKERY** (0.5)

18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)

Associate Degree Applicable

Prerequisite: CUL 100

Introduces the student to a wide variety of whole, un-refined grains in the context of their native bio-regions and cultural status. Whole grains pertaining to the Native Americas, Native Europe, Near Eastern regions, Asia, and Africa will all be discussed and prepared. The student will explore a variety of cooking techniques and applications pertaining to these grains for both home and professional use.

**102 SEASONAL CUISINE** (0.5)

18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)

Associate Degree Applicable

Prerequisite: CUL 100

Demonstrates whole foods cuisine from a seasonal perspective, and how to integrate these foods into both a production and home kitchen. The student will learn the seasonality of produce through hands on experience, developing seasonal menus, and field trips to local farmer's markets and organic farms. Local foods and farmers will be emphasized.

**103 HEALTHFUL ETHNIC CUISINE** (0.5)

18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)

Associate Degree Applicable

Prerequisite: CUL 100

Introduces the student to traditional healthful cuisines found around the globe. Preparing foods from traditional cuisines such as Mediterranean, Japanese, Indian, and Thai will be emphasized. Traditional cuisines will be compared and contrasted to a Western diet, and the health implications of both will be evaluated and discussed.

**104 LIVING AND RAW FOODS** (0.5)

18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)

Associate Degree Applicable

Prerequisite: CUL 100

Introduces the student to the basic principles, theories, and preparations of living and raw foods cuisine. Dishes will be prepared and evaluated according
to the principles of raw and living foods, requiring the food to never be heated over 110 degrees F-115 degrees F. Basic food production methods covered include sprouting, dehydrating, juicing, fermenting, soaking, and specialized knife skills.

105 ALTERNATIVE BAKING AND DESSERT METHODS (0.5)
18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 100
Introduces and teaches the student to use alternative baking methods and whole food ingredients to create classic baked goods and sweets such as cakes, cookies, scones, biscuits, breads, frostings, candies, frozen desserts, and custard like desserts. Ingredients such as whole grain flours, unrefined sweeteners, non-dairy milks, nuts, seeds, and fresh and dried fruits are emphasized.

106 ADVANCED VEGETARIAN CUISINE (0.5)
18.0 hours per week: (4.5 hours lecture, 13.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 101
Advisory: CUL 102, CUL 103, CUL 104, CUL 105.
Engages the student in a more critical and in-depth approach to vegetarian cuisine. Emphasizes advanced cooking techniques, vegetarian menu planning and design, menu execution, seasonality of foods, fresh produce, whole grains, and alternative cooking methods and ingredients.

125 BAKING AND BAKING SCIENCE I (1.0)
(Formerly CULART 25)
4.0 hours per week: (1.0 lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 210
Corequisite: CUL 220
Introduces the student to the basic skills needed for professional baking. Enables the student to learn and practice the skills and methods of the production of bread, desserts, and other baked goods using quantity production techniques.

145 ADVANCED PASTRY ARTS (1.0)
(Formerly CULART 45)
4.0 hours per week: (1.0 lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 235
Corequisite: CUL 240 AND CUL 243
Engages the student in the advanced techniques of classical and modern pastry. Emphasis is placed on advanced professional bakeshop operations. Cakes, pastries, meringues, chocolates, and sauces are created and displayed, using different theories of plate design. Hands-on experience in the production and display of pastillage, croquant, marzipan, and royal icing.

149 VEGETARIAN CUISINE (1.0)
(Formerly CULART 49)
22.0 hours per week: (16.0 lecture, 6.0 hours laboratory)
Associate Degree Applicable
Engages the student in gourmet vegetarian food preparation, focusing on food service applications. Explores the history of vegetarianism worldwide, nutrition and health implications, ingredient selection, and preparation and cooking techniques of a wide variety of vegetarian diets.

193 CULINARY ARTS SPECIAL TOPIC (4.0 to 0.5)
(Formerly CULART 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

210 CULINARY ARTS FUNDAMENTALS I (2.5)
(Formerly CULART 10)
10.0 hours per week: (2.5 hours lecture, 7.5 hours laboratory)
Associate Degree Applicable
Introduces the student to the culinary arts profession and the professional kitchen. Emphasis on basic cooking methods, equipment use, and ingredients provides the student with a beginning understanding of food chemistry and cooking techniques. The course includes “hands-on” experience managing the dining room and kitchen in the production of stocks, broths, sauces, gravies, soups, and breakfast cookery.
Transfer: CSU.

213 FOOD SAFETY AND SANITATION (1.0)
(Formerly CULART 13)
1.0 hour lecture per week
Associate Degree Applicable
Examines the principles of hygiene and sanitation and their application to food service operations. Emphasis is placed on the implementation of proper methods and procedures and the food handlers responsibility in maintaining high sanitation and safety standards.
Transfer: CSU.

220 CULINARY ARTS FUNDAMENTALS II (1.5)
(Formerly CULART 20)
6.0 hours per week: (1.5 hours lecture, 4.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 210
Corequisite: CUL 125
Engages the student in the practical kitchen application of vegetable, grain, starch and the principles and practices used in producing pantry items in a commercial environment. A variety of menu items are prepared including salads, salad dressings, sandwiches, and vegetable, grain and legume dishes.
Transfer: CSU.

230 MEAT, POULTRY, AND SEAFOOD ANALYSIS AND PRODUCTION (1.5)
(Formerly CULART 30)
6.0 hours per week: (1.5 hours lecture, 4.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 220
Corequisite: CUL 235
Engages the student in the practical kitchen application and cooking methods for major cuts of beef, pork, poultry, and seafood.
Transfer: CSU.

235 INTERMEDIATE BAKING (1.0)
(Formerly CULART 35)
4.0 hours per week: (1.0 lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 125
Corequisite: CUL 230
Engages the student in the skills necessary for the production of cakes, tortes, French pastries, and petit fours utilizing commercial baking techniques.
Transfer: CSU.

240 GARDE MANGER (1.0)
(Formerly CULART 40)
4.0 hours per week: (1.0 lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 230
Corequisite: CUL 243 AND CUL 145
Engages the student in a comprehensive study of the skills necessary for the preparation of cold buffets. The course focuses on “hands-on” experience in the production of aspic jellies, terrines, galantines, salads, garnishes, chaud froid sauces, forcemeats, pates, gelatinis, sausages, mousses, brines, dry cures, marinades, smoked meats, poultry and fish, salt dough display pieces, vegetable flowers, and buffet table and tray centerpieces using fruits and vegetables and ice sculptures.
Transfer: CSU.

243 INTERNATIONAL CUISINE (0.5)
(Formerly CULART 43)
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: CUL 230
Corequisite: CUL 240 AND CUL 145
Engages the student in gourmet international food preparation applied to restaurants. Explores customs, serving styles, and preparation techniques of foods unique to selected international cultures. Cultures to include, but not limited to: Italian, German, French, Asian, Middle Eastern, and Latin.

**Transfer:** CSU.

**COURSES**

**DANCE [DANC]**

**225 DANCE IMPROVISATION AND COMPOSITION** (1.0)
(Formerly DANCE 25)
3.0 hours laboratory per week
Associated Degree Applicable
Exploration and development of improvisational and composition skills for the craft of choreography.
Repeatable 3 times.
Transfer: CSU; UC.

**228 SOCIAL DANCE FORMS** (1.0)
(Formerly DANCE 28)
3.0 hours laboratory per week
Associated Degree Applicable
Introduction to social dance techniques. Instruction and practice to include Swing, Cha Cha, Waltz, Fox Trot, Rhumba and Tango dances.
Repeatable 3 times.
Transfer: CSU; UC.

**249 DANCE ENSEMBLE** (3.0 to 0.5)
(Formerly DANCE 49)
9.0 hours laboratory per week
Associated Degree Applicable
Prerequisite: By audition or consent of instructor
Advisory: One semester of dance technique in ballet, jazz, or modern recommended.
A laboratory course providing instruction in various dance techniques, choreography, music collaboration, make-up, costume construction, light design, and set construction, cumulating in an informal dance performance. Requires rehearsal.
Repeatable 3 times.
Transfer: CSU; UC.

**250 DANCE HISTORY OF THE 20TH CENTURY** (3.0)
(Formerly DANCE 50)
3.0 hours lecture per week
Associated Degree Applicable
A study of twentieth century social and theatrical dance forms in the context of western societies with an emphasis on American dance. Influential choreographers, dancers and theorists will be discussed.
Transfer: CSU; UC.

**252 DANCE CULTURES OF THE WORLD** (3.0)
(Formerly DANCE 52)
3.0 hours lecture per week
Associated Degree Applicable
An introductory overview to some of the major dance traditions of the world. Emphasis is on why people dance, how they dance and why they dance the way they do. The particular forms may vary each semester but may include: African, Asian, Native American, Flamenco, Hawaiian and primitive dance.
Transfer: CSU; UC.

**254 INTRODUCTION TO DANCE** (1.0 to 0.5)
(Formerly DANCE 54)
3.0 hours laboratory per week
Associated Degree Applicable
Introduces the technique, history and choreography of the three major dance forms: ballet, jazz dance, and modern dance. Includes a final performance.
Repeatable 3 times.
Transfer: CSU; UC.

**255 BALLET** (1.0 to 0.5)
(Formerly DANCE 55)
3.0 hours laboratory per week
Associated Degree Applicable
Beginning Ballet: Introduces classical ballet. Develops alignment, turnout, muscular control, grace, flexibility, five basic positions, terminology, and rhythm.
“Intermediate Ballet”: Reviews fundamentals of ballet techniques with increased complexity and introducing additional movement vocabulary. Development of strength in feet by means of exercises on demi-point, development of stability and strength in legs by increasing the number of movements covered. Development of technique by executing the movements in a faster tempo.
Repeatable 3 times.
Transfer: CSU; UC.

**256 JAZZ DANCE** (1.0 to 0.5)
(Formerly DANCE 56)
3.0 hours laboratory per week
Associated Degree Applicable
Introduces jazz dance techniques including phrasing, performance, technique, choreography, and the presentation of simple dance.
Repeatable 3 times.
Transfer: CSU; UC.

**258 DANCE CHOREOGRAPHY AND PERFORMANCE** (2.0)
(Formerly DANCE 58)
6.0 hours laboratory per week
Associated Degree Applicable
Presents basic dance techniques and choreography as they apply to dance production. Requires rehearsal and performance of selected student and/or faculty pieces. Presents choreography and dance production experience in a professional stage setting to broaden and expand comprehension of dance as an artistic and commercial form of expression.
Repeatable 3 times.
Transfer: CSU; UC.

**260A MODERN DANCE, BEGINNING** (1.0)
(Formerly DANCE 60A)
3.0 hours laboratory per week
Associated Degree Applicable
Presents beginning Modern Dance techniques, theory and processes. Includes technique practice focusing on the fundamentals of time, space and energy, exploration of anatomically efficient dance forms and preparation for individual expression through class performance.
Repeatable 3 times.
Transfer: CSU; UC.

**260B MODERN DANCE, INTERMEDIATE** (1.0)
(Formerly DANCE 60B)
3.0 hours laboratory per week
Associated Degree Applicable
Presents intermediate Modern Dance techniques, theory and processes. Includes technique practice focusing on the fundamentals of time, space and energy, exploration of anatomically efficient dance forms and preparation for individual expression through class performance.
Repeatable 3 times.
Transfer: CSU; UC.

**260C MODERN DANCE, ADVANCED** (1.0)
(Formerly DANCE 60C)
3.0 hours laboratory per week
Associated Degree Applicable
Presents advanced Modern Dance techniques, theory and processes. Includes technique practice focusing on the fundamentals of time, space and energy, exploration of anatomically efficient dance forms and preparation for individual expression through class performance.
Repeatable 3 times.
Transfer: CSU; UC.
DRAMA [DRA]

193 DRAMA SPECIAL TOPIC (4.0 to 0.5)
(Formerly DRA 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

201A PRINCIPLES OF ACTING (3.0)
(Formerly DRA 1A)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Explores each person's creative artistic expression and emphasizes the study of acting as a discipline. The fundamental techniques of acting are explored by analyzing plays with an emphasis on the actor's approach to personal awareness, characterization, and the performer's relationship to all parts of the play's production.
Transfer: CSU; UC.

201B PRINCIPLES OF ACTING (3.0)
(Formerly DRA 1B)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: DRA 201A, DRA 248 or DRA 252
Continues the study of the theory and practice of acting with special emphasis on styles and forms of acting.
Repeatable 1 time.
Transfer: CSU; UC.

202 APPLIED PRINCIPLES OF ACTING (3.0)
(Formerly DRA 2)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: DRA 201A
Presents experience in ensemble interaction within the framework of dramatic works. Provides an opportunity to perform in workshop scenes and to present a program of short dramatic works for an audience.
Transfer: CSU; UC.

203 IMPROVISATION (3.0)
3.0 hours lecture per week
Associate Degree Applicable
Explores spontaneity, physicalization, character and building in an energetic and engaging environment. Students will create non-scripted theatre through theatre games and improvisational scenes directed towards live performance (No previous theatre experience or preparation required.)
Repeatable 3 times.
Transfer: CSU.

205 INTRODUCTION TO DRAMATIC LITERATURE (3.0)
(Formerly DRA 5)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Surveys the development of the world theatre from Greek drama to the present time as observed in the reading of representative plays. Introduces the

206 THEATRE APPRECIATION (3.0)
(Formerly DRA 6)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Completion of or concurrent enrollment in ENGL 156.
A study of the combined elements of theatre through examination of current and classical plays with special emphasis on dramatic analysis and cultural significance for non-drama majors. Also provides background in various technical aspects of production and in the skills and talents required to successfully produce both plays and musicals.
Transfer: CSU; UC (For UC, maximum credit one course between DRA 206 and 207).

207 INTRODUCTION TO THE THEATRE (3.0)
(Formerly DRA 7)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Introduces theatre and related crafts such as costuming, lighting, and theatre architecture. Emphasizes awareness of components constituting an artistic entity and the ability to objectively evaluate a professional or non-professional performance.
Transfer: CSU; UC (For UC, maximum credit one course between DRA 206 and 207).

208 VOICE FOR THE ACTOR (3.0)
(Formerly DRA 8)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: DRA 201A.
Designed to (1) improve natural, clear, unaffected speech, and (2) eliminate negative habits and regional accents: exercises for physical tension, vocal support, tone production, vocal quality, and articulation.
Repeatable 2 times.
Transfer: CSU; UC.

209 INTRODUCTION TO TECHNICAL THEATER (3.0)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Introduces the student to the theories and practices of stagecraft. This comprehensive course covers the principles and safe execution of scenery construction, scenic art, properties, stage lighting, and audio through lecture and practical lab experience. Topics also include: design process, professionalism, theater performance spaces, and the production staff.
Transfer: CSU; UC.

211A STAGECRAFT (3.0)
(Formerly DRA 11A)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Introduces theatre shop equipment and basic construction techniques needed for design fabrication, and finishing of stage scenery and props.
Transfer: CSU; UC.

211B ADVANCED STAGECRAFT (3.0)
(Formerly DRA 11B)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: DRA 211A
Continues the study of theatre shop equipment and basic construction techniques needed for design, fabrication, and finishing of stage scenery and props.
Transfer: CSU; UC.
213 SCENIC ART
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prepares students to explore the art of scene painting and texturizing. Project based assignments introduce the materials, application equipment and techniques used in the preparation and finishing of scenic units.
Repeatability: 3 times.
Transfer: CSU; UC.

215 INTRODUCTION TO STAGE MOVEMENT
(Formerly DRA 15)
3.0 hours lecture per week
Associate Degree Applicable
Introduces the student to various aspects of stage movement, including choreography, blocking, stage combat, mime, and character work. Develops students’ awareness of the expressive nature of the human body and how to use the body as a tool for creating a character.
Transfer: CSU; UC.

218 MAIN STYLES IN FILMS
(Formerly DRA 18)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 201A.
Traces the main currents in American and British films by means of the various movie genres and the representative films. Explores the conventions and aesthetic standards for the Western, mystery, comedy, musical, and science fiction of motion pictures.
Transfer: CSU; UC.

221 ACTING FOR THE CAMERA
(Formerly DRA 21)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prepares students to present themselves in a professional manner for the camera. Voice, appearance, movement and the technical aspects of camera performance will be covered through comprehensive exercises and on-camera evaluation.
Transfer: CSU.

222 DIRECTING FOR THE CAMERA
(Formerly DRA 22)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Introduces students to the art and craft of directing for the camera. Develops skills in pre-visualizing, pre-production, and executing successful shooting sessions. Prepares students to effectively work with actors and other crew members.
Transfer: CSU.

225 ENTERTAINMENT LIGHTING
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Explores intelligent lighting and control as well as instrumentation and basic electrical theory. Students will hang, focus and accessorize fixtures for a lighting plot.
Transfer: CSU; UC.

226 ADVANCED ENTERTAINMENT LIGHTING
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: DRA 225
Explores the basic principles of lighting esthetics and design through lecture and practical application. Students design and manage electrics crews during the hang and focus of their plots.
Transfer: CSU; UC.

240 TECHNICAL PRODUCTION LAB
9.0 hours laboratory per week
Associate Degree Applicable
 Offers skill building lab opportunities in lighting, sound, scenery construction, props, and scenic art. Lab sessions are tailored to students current area of study.
This course may be taken four times for credit.
Repeatability: 3 times.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: DRAMA
(Formerly DRA 47)
6.0 hours laboratory per week
Associate Degree Applicable
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of drama, under the direction of an instructor.
Repeatability: 3 times.
Transfer: CSU; UC.

248 PLAY PRODUCTION
(Formerly DRA 48)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Studies the techniques involved in the production of dramatic works. Emphasizes directing, acting, stagecraft, costuming, make-up, publicity, and stage lighting. Students must complete a major production responsibility.
Repeatability: 3 times.
Transfer: CSU; UC.

250 MUSICAL THEATRE WORKSHOP
(Formerly DRA 50)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition is required and previous choral experience is recommended
Develops the students’ skills for performance in musical theatre, including singing, acting, stage movement and choreography. Public performance may be required. Same as MUS 250.
Repeatability: 3 times.
Transfer: CSU; UC.

251 MUSICAL THEATRE PERFORMANCE
(Formerly DRA 51)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in DRA 250 or MUS 250 and/or audition
Advisory: Eligibility for ENGL 156.
Studies the techniques involved in the production of a full-length musical with emphasis on acting, singing, dancing, costuming, make-up, stagecraft, and publicity. Produces one musical each semester. Public performance will be required. Same as MUS 251.
Repeatability: 3 times.
Transfer: CSU; UC.

252 WRITING, DIRECTING, AND ACTING FOR THEATRE
(Formerly DRA 52)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Provides practical experience in the creation of a production company, within the class, whose objectives are the casting, rehearsal, and public performance of live theatre.
Transfer: CSU.

EARLY CHILDHOOD EDUCATION [ECE]

114 PREKINDERGARTEN LEARNING & DEVELOPMENT GUIDELINES
(Formerly ECE 14)
9.0 hours lecture per week
Associate Degree Applicable
Presents the Prekindergarten Learning and Development Guidelines developed
135 STRATEGIES FOR CHALLENGING BEHAVIORS IN THE ECE CLASSROOM (3.0)
(Formerly ECE 35)
3.0 hours lecture per week
Associate Degree Applicable
Introduces the biological and environmental risks associated with prenatal, perinatal, and postnatal brain development and the behavioral, psychological and cognitive implications for Early Childhood Education teachers. Presents strategies for dealing with challenging behaviors in the Early Childhood Classroom that result from cultural differences and/or difficulties with self-regulation, motivation, and sensory processing.

150 EARLY CHILDHOOD EDUCATION SEMINAR (3.0 to 0.5)
(Formerly ECE 50)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Examines current issues in the field of early childhood education affecting children from infancy through age twelve. Meets Title XXII requirements: DS 3, DS 5. Repeatable 3 times.

164 FAMILY CHILD CARE: FOCUS ON THE PROVIDER (1.0)
(Formerly ECE 64)
1.0 hours lecture per week
Associate Degree Applicable
This course is one of a series designed to promote and enhance quality in family child care. The focus of the course is on the provider: identifying characteristics of the successful provider, practicing effective communication skills, developing strategies to avoid stress and burnout and professionalism in family child care.

165 FAMILY CHILD CARE: FOCUS ON THE BUSINESS (1.0)
(Formerly ECE 65)
1.0 hours lecture per week
Associate Degree Applicable
This course is one of a series designed to promote and enhance quality in family child care. The focus of this course is on the business aspects of family child care. Topics covered include: professional support systems, resources for small businesses, developing a business plan, marketing strategies and ongoing operating procedures.

166 FAMILY CHILD CARE: FOCUS ON THE FAMILY (1.0)
(Formerly ECE 66)
1.0 hours lecture per week
Associate Degree Applicable
This course is one of a series designed to promote and enhance quality in family child care. The focus of the course is on the families in family child care: both the client's and the provider's. Topics include: diversity, parenting styles, provider family concerns, client family concerns, and creating successful relationships.

167 FAMILY CHILD CARE: FOCUS ON THE CHILDREN (1.0)
(Formerly ECE 67)
1.0 hours lecture per week
Associate Degree Applicable
This course is one of a series designed to promote and enhance quality in family child care. The focus of the course is on the children in care. Topics include: principles of child development, creating learning environments, planning developmentally appropriate activities, child guidance techniques and quality care indicators for family child care.

193 EARLY CHILDHOOD EDUCATION SPECIAL TOPIC (4.0 to 0.5)
(Formerly ECE 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.
209 GUIDANCE, CURRICULUM AND ENVIRONMENTS (3.0)
(Formerly ECE 9)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ECE 203 and ECE 205
Corequisite: ECE 210
Advisory: ENGL 156.
Examines the characteristics of children with special needs and how to effectively meet their individual needs. Presents the identification, educational needs, behavior management, family relationships, children's rights and community resources of/for the child with special needs. Transfer: CSU.

210 PRACTICUM: GUIDANCE, CURRICULUM AND ENVIRONMENT (3.0)
(Formerly ECE 10)
7.0 hours per week: ( 1.0 hours lecture,  6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ECE 206 and Department of Social Services Title XXII, Section 101215B requires current TB clearance
Corequisite: ECE 209
Advisory: ENGL 156.
Provides a supervised field experience in an Early Childhood setting allowing students to develop and demonstrate developmentally appropriate competencies. Students will apply knowledge of theory in the development and application of guidance, teaching, curriculum, learning environments, assessments, and evaluation. Child and play-centered approaches that support positive learning experiences and an appreciation of children, their families and the student's development of professional behaviors will be emphasized. Meets Title XXII requirements: DS 3, DS 5.
Transfer: CSU.

211 MUSIC AND MOVEMENT ACTIVITIES FOR YOUNG CHILDREN (3.0)
(Formerly ECE 11)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligible for ENGL 156.
Present techniques and guidelines for teaching movement exploration, physical education, and music to the preschool through third grade child. Examines the child's need for effective movement skills and musical experiences. Meets Title XXII requirements: DS 3, DS 5.
Transfer: CSU.

213 INTRODUCTION TO THE TEACHING PROFESSION (3.0)
(Formerly FAMST 11)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: ENGL 156.
Provides a minimum of 45 hours of supervised observation and participation in cooperating public schools. Discussion focuses on instructional practice and subject matter taught in the grades observed, as well as the historical, philosophical and social foundations of American public education. Examines opportunities, requirements, responsibilities, new directions, and rewards in teaching. Places students in a more informed position regarding the decision to pursue a career in education.
Transfer: CSU; UC.

215 TEACHING IN A DIVERSE SOCIETY (3.0)
(Formerly ECE 15)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Examines the major social, economic, and psychological processes involved in interactions and relationships as related to differences in personal and group characteristics and how these processes impact work with young children and their families in early education programs. Various approaches will be explored, with emphasis on an anti-bias approach. Self examination, reflection and integration of practices to promote equity and deepen understanding of how to best support children as they gain a sense of identity and become respectful and confident members of our complex, diverse society.
Transfer: CSU.

220 ART FOR CHILDREN (3.0)
(Formerly ECE 20)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Examines the major social, economic, and psychological processes involved in interactions and relationships as related to differences in personal and group characteristics and how these processes impact work with young children and their families in early education programs. Various approaches will be explored, with emphasis on an anti-bias approach. Self examination, reflection and integration of practices to promote equity and deepen understanding of how to best support children as they gain a sense of identity and become respectful and confident members of our complex, diverse society.
Transfer: CSU.

222 CRAFTS FOR SCHOOL AGE CHILDREN (3.0)
(Formerly ECE 22)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Examines the major social, economic, and psychological processes involved in interactions and relationships as related to differences in personal and group characteristics and how these processes impact work with young children and their families in early education programs. Various approaches will be explored, with emphasis on an anti-bias approach. Self examination, reflection and integration of practices to promote equity and deepen understanding of how to best support children as they gain a sense of identity and become respectful and confident members of our complex, diverse society.
Transfer: CSU.

234 CHILDREN'S LITERATURE (3.0)
(Formerly ECE 34)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A
Presents a survey of literature for children from infancy through elementary school with an emphasis on a diversity perspective. Introduces the genre: picture books, traditional literature, fantasy, poetry, historical fiction, realistic fiction, biography and informational books. Emphasizes understanding, analysis, appreciation and application through an in-depth examination of a variety of children's books. Meets Title XXII requirements: DS3, DS5.
Transfer: CSU.

236 UNDERSTANDING THE CHILD WITH SPECIAL NEEDS (3.0)
(Formerly ECE 36)
3.0 hours lecture per week
Associate Degree Applicable
Examines the characteristics of children with special needs and how to effectively meet their individual needs. Presents the identification, educational needs, behavior management, family relationships, children's rights and community resources of/for the child with special needs.
Transfer: CSU.

241 INTERNSHIP (3.0)
(Formerly ECE 41)
7.0 hours per week: (1.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ECE 210, an interview and Department of Social Services Title XXII, Section 101216B requires current TB clearance
Provides selected advanced students an opportunity to experience the responsibilities of being intern staff members in a preschool program. Meets Title XXII requirements: DS 3.
Transfer: CSU.

242 INFANT-TODDLER CAREGIVING (3.0)
(Formerly ECE 42)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Examines the major social, economic, and psychological processes involved in interactions and relationships as related to differences in personal and group characteristics and how these processes impact work with young children and their families in early education programs. Various approaches will be explored, with emphasis on an anti-bias approach. Self examination, reflection and integration of practices to promote equity and deepen understanding of how to best support children as they gain a sense of identity and become respectful and confident members of our complex, diverse society.
Transfer: CSU.
242A  INFANT-TODDLER CAREGIVING MODULE I  (0.5)
(Formerly ECE 42A)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the principles of caregiving for infants and toddlers, caregiving routines and group care, caregiving as curriculum, and cross cultural communication.
Transfer: CSU.

242B  INFANT-TODDLER CAREGIVING MODULE II  (0.5)
(Formerly ECE 42B)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines play as curriculum, development of attachment, implications of early brain development, and adult caregiving roles.
Transfer: CSU.

242C  INFANT-TODDLER CAREGIVING MODULE III  (0.5)
(Formerly ECE 42C)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the development of perception and motor skills.
Transfer: CSU.

242D  INFANT-TODDLER CAREGIVING MODULE IV  (0.5)
(Formerly ECE 42D)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the development of cognition, the development of language and communication and their importance in the development of the brain. Explores the impact of culture on communication and special considerations for special needs children.
Transfer: CSU.

242E  INFANT-TODDLER CAREGIVING MODULE V  (0.5)
(Formerly ECE 42E)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the development of emotions and social skills. Explores the development of self-esteem, fears, trust, security, and autonomy. Presents guidance techniques appropriate for infants and toddlers.
Transfer: CSU.

242F  INFANT-TODDLER CAREGIVING MODULE VI  (0.5)
(Formerly ECE 42F)
9.0 hours lecture per week
Associate Degree Applicable
Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the physical environment: equipment, safety, and group size. Explores the social environment: culture and self image, parental background and cultural perspectives, communication between parent and caregiver, and staff development.
Transfer: CSU.

244  SUPERVISION AND ADMINISTRATION OF PARENT PROGRAMS  (3.0)
(Formerly ECE 44)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ECE 205 or one year of Early Childhood Education teaching experience
Explores the interdependent relationship between the teacher and the parent(s) of a young child. Investigates the wide range of activities in parent involvement, parent participation, and parent education in early childhood education. Presents techniques for working with parent(s), including: development of long-range plans, interview and guidance skills, and the ability to work with small and large groups. Meets Title XXII requirements: DS 6 Basic.
Transfer: CSU.

245  ADULT SUPERVISION, EVALUATION AND STAFF RELATIONS IN ECE  (3.0)
(Formerly ECE 45)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ECE 207 or one year of Early Childhood Education teaching experience
Presents principles and practices in staff relations and the supervision and evaluation of staff in early childhood programs. Includes the study of the method of clinical supervision and performance evaluation, leadership styles, group dynamics, conflict resolution, staff development, staff diversity, staff roles and responsibilities. Meets Title XXII requirements: DS 6 Advanced: DS 6 Advanced
Transfer: CSU.

246  ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD SCHOOLS  (3.0)
(Formerly ECE 46)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ECE 244 or ECE 245
Presents principles and practices in supervision and management of preschools, child care centers, and other programs. Includes the study of program planning, organizing, budgeting requirements, developing personnel policy, doing record keeping, following legal requirements and establishing relationships with community, parents, and regulatory agencies. Meets Title XXII requirements: DS 6 Advanced.
Transfer: CSU.

247  INDEPENDENT STUDIES: EARLY CHILDHOOD EDUCATION  (2.0 to 0.5)
(Formerly ECE 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite:
The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of early childhood education under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

ECONOMICS [ECON]

193  ECONOMICS SPECIAL TOPIC  (4.0 to 0.5)
(Formerly ECON 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.
Cuesta College

201A  PRINCIPLES OF ECONOMICS (3.0)
(Formerly ECON 1A)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, MATH 123SI or equivalent
Advisory: Eligibility for ENGL 156.
Introduces the concepts and tools of macroeconomic analysis, especially as they apply to the United States economy. Includes the economizing problem; resource allocation between the private and public sectors; national income determination; fiscal and monetary policies as they relate to business cycles; and alternative views of Keynesians, Monetarists and supply-siders as they relate to solving economic problems.
Transfer: CSU; UC.

201B  PRINCIPLES OF ECONOMICS (3.0)
(Formerly ECON 1B)
3.0 hours lecture per week
Associate Degree Applicable
Prepares the student for the "A+" computer service technician certification. The course covers basic concepts of computer maintenance. Troubleshooting techniques, fault isolation, software configuration, hardware configuration, and PC maintenance will be some of the topics addressed.

110  INTRODUCTION TO ROBOTICS (2.0)
(Formerly ETCH 110)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduces basic principles of robot operation, applications, and programming. Students will analyze basic robot configurations and industrial applications, as well as proper uses, safety and workplace environment. Students will configure trainer robots for various applications, and program them with script language for process automation. Team robot design and competition will integrate many of the course concepts.

120  EDUCATIONAL SERVICES EDUCATION SEMINAR (8.0 to 0.5)
(Formerly EDSER 120)
8.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Examines current issues in the field of study relating to the educational program sponsoring the training/workshop seminar. Repeatable 3 times.

130L  TECHNICAL PHYSICS LAB (1.0)
(Formerly ETCH 130L)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: MATH 123 or MATH 124A
Corequisite: PHYS 130

Electronics & Elect. Tech. [EET]
PRESENTS APPLIED PHYSICS CONCEPTS AND EXPERIMENTS THAT SUPPORT TECHNICAL PHYSICS (PHYS 130) LECTURE MATERIAL. THE EXPERIMENTS FORM THE BASIS OF A WELL-BALANCED COURSE IN PHYSICS FOR THE STUDENT WHO PLANS A CAREER IN A TECHNICAL OR VOCATIONAL FIELD. EXPERIMENTS COVER TOPICS SUCH AS MEASUREMENT SYSTEMS, ACCELERATION, FRICTION, FORCES, POWER, WORK, LEVELS, GEARS, SIMPLE MACHINES, GAS LAWS, PRESSURE, VOLUME, FLOW, HEAT, AND WAVES. PHYSICS CONCEPTS WILL BE TAUGHT USING INDUSTRIAL EQUIPMENT WHENEVER PRACTICAL TO SHOW RELATIONSHIP BETWEEN REAL WORLD APPLICATIONS AND PHYSICAL LAWS.

138 NUMERICAL CONTROL SYSTEMS (2.5)  
(Formerly ETCH 138)  
7.0 hours per week: (4.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: ENGR 226  
Advisory: CIS 213 or CIS 214.  
Students will study CAD and CAM software and its application to manufacturing processes. Software will be utilized to design components that will be produced on CNC machinery. The basics of CNC hardware and operation, as well as programming will be studied. The mathematics of controlling tool paths, the integration of software and hardware, and the manufacturing of products using CNC machines will be applied to lab experiments.

144 COMPUTER INTEGRATED MANUFACTURING (2.0)  
(Formerly ETCH 144)  
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: EET 138  
Advisory: EET 228 and EET 235.  
This course combines the concepts of robotics, computer numerical control, and automation programming into an integrated manufacturing setting. Control of manufacturing processes by both centralized and distributed computer systems will be studied. The manufacturing processes using CAD design, CAM implementation and finished CNC product, will be integrated into a robotic assembly line utilizing a vision inspection system for quality control. Broader CIM concepts of Just In Time (JIT) manufacturing, Database Management System (DBMS), Manufacturing Resource Planning (MRP), and OSI-based Manufacturer's Automation Protocol (MAP) will be discussed or implemented in labs settings.

150 INDUSTRY INTERNSHIP (4.0 to 2.0)  
(Formerly ETCH 150)  
10.0 hours per week: (1.0 hours lecture, 9.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: EET 144  
Students obtain and complete a cooperative work placement with emphasis on development and use of technical, analytical, report writing and presentation skills. Students complete work term logs, employment-related technical reports and presentations. Repeatable 3 times.

152 AUTOMATION PROJECT (2.0)  
(Formerly ETCH 152)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: EET 144  
The course will develop the students' ability to plan, schedule, self-direct, evaluate, build communication skills, and develop team building techniques. Students are required to undertake a large manufacturing and automation project, simulating as nearly as possible the integration of advanced technologies. Repeatable 2 times.

160 ALARM SYSTEMS (2.0)  
(Formerly ETCH 160)  
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)  
Associate Degree Applicable  
Presents installation requirements, operation and maintenance of both security intrusion and fire alarm systems. The student will be able to safely install, operate and maintain systems to meet relevant codes and standards. Repeatable 3 times.
227 FLUID AND PNEUMATIC TECHNOLOGY  (4.0)
(Formerly ETCH 227)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: PHYS 210.
Presents basic topics related to fluid and pneumatic systems and devices. Basic
physics relating to fluid hydraulics and pneumatics will lead into applied topics
such as tanks, pumps, pump filters, accumulators, actuators, valves, compres-
sors, and pressure regulators. Some advanced topics such as accumulator
circuits, directional control valves, sequencers, accumulator circuits, directional
control valves, sequencers, pilots and solenoid controlled valves, and servo flow
controlled valves will be addressed.
Transfer: CSU.

228 PROGRAMMABLE LOGIC CONTROLLERS  (4.0)
(Formerly ETCH 228)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: EET 213
Course includes basic topics related to Programmable Logic Controllers (PLC).
Topics include a discussion of the PLC's purpose, basic operation, functions,
and applications. PLC architecture and hardware will be investigated including
I/O structures and configurations, central processing unit, and power supplies.
PLC programming basics including relay ladder logic, extended relay instruc-
tions, timers and counters, math functions, data and bit manipulation will be
studied. Programs will be written and debugged in a laboratory environment
that interface to electromechanical, hydraulic, and pneumatic equipment. PLC
peripherals and accessories will also be studied.
Transfer: CSU.

235 ROBOTICS TECHNOLOGY  (4.0)
(Formerly ETCH 235)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 213, EET 213 and PHYS 130.
Introduces the history and use of robots in industry. Standard arm configura-
tions and hardware including principles of path control, motion sensing, speed
and position control, and servo-actuators are examined. Arm configuration,
basic mechanics and kinematics of arm structure and hardware are investigated.
End-effectors, supplemental tooling hardware, and sensors are studied in work-
cell applications. Includes programming the controller in a high level language
using a teach pendant.
Transfer: CSU.

239 COMPUTER NUMERICAL CONTROLS  (3.0)
(Formerly ETCH 239)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 213 and ENGR 226.
Presents basic concepts in CAD and CAM software and its application to man-
ufacturing processes. Software will be utilized to design components that will
be produced on CNC machinery. The basics of CNC hardware and operation,
as well as programming in one, two, and three dimensions will be studied. The
mathematics of controlling tool paths, the integration of software and hardware,
and the manufacturing of products using CNC machines will be applied to lab
experiments. CNC as a component of Computer Integrated Manufacturing
will also be addressed.
Transfer: CSU.

247 INDEPENDENT STUDIES: ELECTRONICS TECHNOLOGY  (2.0 to 0.5)
(Formerly ETCH 247)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the tech-
nical field in which the study is to be undertaken
Provides an opportunity for in-depth study or practicum experience by an
individual student in a selected topic in the Electronics Technology area with
support and direction from an instructor.
Repeatable 3 times.
Transfer: CSU.

257 COMPUTER INSTRUMENTATION AND CONTROL  (4.0)
(Formerly ETCH 257)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: EET 224.
Course includes topics related to basic process instrumentation and control
developed in conjunction with Pacific Gas and Electric's (PG&E's) I&C techni-
cian training program. A brief review of industrial electronics is expanded
upon to develop more advanced process instrumentation and control concepts.
Topics include advanced applications of components used in both DC and AC
motor control, recorders, control valves and actuators, temperature sensors,
pressure sensors, level sensors, flow sensors and instrumentation maintenance
 techniques.
Transfer: CSU.

267 POWER SYSTEMS AND ROTATING ELECTRICAL MACHINERY  (4.0)
(Formerly ETCH 267)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: EET 224.
Course includes topics related to fundamental industrial electrical maintenance
training developed in conjunction with Pacific Gas and Electric's (PG&E's)
Electrical Maintenance Training Program. A brief review of electrical theory
and practical troubleshooting is expanded upon to develop comprehensive
electrical power system concepts. Topics include power drawings and circuit
diagrams, grounding-cabling and conduit, meters, power transformers, circuit
protection, relays, rotating electrical machinery, electrical testing equipment,
bolting practices, controllers, safety and fire protection.
Transfer: CSU.

102 EMERGENCY MEDICAL TECHNICIAN - REFRESHER  (1.5)
(Formerly EMS 2)
1.5 hours lecture per week
Associate Degree Applicable
Prerequisite: Current Emergency Medical Technician 1 County Certificate or a
County EMT Certificate that has not been expired for more than 2 years.
Reviews and updates knowledge and skills required to qualify for the State of
California Emergency Medical Technician Level 1 certification. County EMT
Basic certificate will need to be received in the Nursing office department in
order to register for this course.
Repeatable.

103 HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONAL  (1.5)
(Formerly EMS 3)
9.0 hours lecture per week
Associate Degree Applicable
Focus is safety in hazardous materials response as an emergency responder.
After successful completion of this course, the student will receive a California
State certificate for Hazardous Materials First Responder Operational level.
The CA Certification meets the requirements of Title 8 CCR Sec. 5192 (q)
and is required by emergency providers. A certification fee is required prior to
completion of the course.
Repeatable.

104 EMERGENCY VEHICLE OPERATORS – AMBULANCE  (0.5)
(Formerly EMS 4)
5.5 hours per week: (4.0 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: Valid CA driver’s license and be 18 years or older
Presents ambulance operators with knowledge and skills to operate vehicles
so that vehicle, equipment, crew, and patients will be delivered safely and ef-
105  PARAMEDIC PREPARATORY  (1.5)
1.5 hours lecture per week
Associate Degree Applicable
Prerequisite: Current EMT certificate; American Heart Association Healthcare Provider CPR or Red Cross Professional Rescuer; Must be 18 years of age on the first day of class.
Corequisite: EMS 105L
Introduces the student who may be interested in paramedicine to pre-hospital concepts. Emphasis is on a strong base of EMT skills prior to considering a career in paramedicine. The course is designed to prepare the student for the paramedic training. Topics include anatomy and physiology review, patient assessment, electrocardiology, basic pharmacology and study habits as it applies to paramedic-level training.
Repeatable 1 time.

106  PARAMEDIC THEORY I  (14.0)
(Formerly EMS 6)
22.0 hours per week: (10.0 hours lecture, 12.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Program admission.
 Applies 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 the minimum 450 hours of the 1090 minimum hours required to complete paramedic training in the state of California. Course content is based on the guidelines and authority of the Title 22, Division 9, of the California Code or regulations and the US Department of Transportation Emergency Medical Technician-Paramedic Standard National Curriculum.
Repeatable 1 time.

107  PARAMEDIC THEORY II  (3.0)
(Formerly EMS 7)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: EMS 106
Corequisite: EMS 107L
Builds on advance life support concepts by using scenario based situations to acute care patients for the paramedic student. This phase extends the theory discussion of EMS 106 with special events and operations.
Repeatable 1 time.

107A  ADVANCED CARDIAC LIFE SUPPORT  (1.0)
1.0 hours lecture per week
Associate Degree Applicable
Prerequisite: EMS 106; Current CPR for Health Care Providers Certificate
Teaches Advanced Cardiac Life Support knowledge and skills necessary to provide the appropriate early treatment for cardiopulmonary arrest. Based on current American Heart Association guidelines.
Repeatable 4 times.

107B  PEDIATRIC ADVANCE LIFE SUPPORT  (1.0)
1.0 hours lecture per week
Associate Degree Applicable
Prerequisite: EMS 106; Current CPR for Health Care Providers Certificate
Teaches Pediatric Advanced Cardiac Life Support knowledge and skills necessary to provide the appropriate treatment for pediatric emergencies Based on current American Heart Association guidelines.
Repeatable 3 times.

107C  PREHOSPITAL TRAUMA LIFE SUPPORT  (1.0)
1.0 hours lecture per week
Associate Degree Applicable
Prerequisite: EMS 106; Current CPR for Health Care Providers Certificate
Provides knowledge and skills taught to provide pre-hospital trauma life support appropriate for the care of the trauma patient. National Association of Emergency Medical Technicians based course.
Repeatable 3 times.

107L  PARAMEDIC CLINICAL  (3.0)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: EMS 106
Corequisite: EMS 107
Corequisite: Advanced Cardiac Life Support, Basic Trauma Life Support, Pediatric Advanced Life Support
Provides clinical application of advance life support concepts in acute patient cared for the paramedic student. Opportunities for increasing skill performance in the clinical setting.
Repeatable 1 time.

108A  PARAMEDIC INTERN I  (1.0)
(Formerly EMS 8)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: EMS 107
Corequisite: Advanced Cardiac Life Support, Basic Trauma Life Support, Pediatric Advanced Life Support
Apply the third and final phase of paramedic training, which allows the student to be assigned to an emergency response vehicle with a field preceptor to establish advanced life support patient care responsibilities. The student develops advanced life support skills acquiring 54 hours toward the total hours required for the internship. Upon successful completion of this phase of training the student builds foundational skill in paramedicine.
Repeatable 2 times.

108B  PARAMEDIC INTERN II  (8.0)
(Formerly EMS 8)
24.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: EMS 108A
Builds upon and provides a continuation of EMS 108A. Assigned to a preceptor on an emergency medical response vehicle, the student develops skill proficiency and increased independence in advanced life support patient care. Upon completion of this culminating field experience, the student becomes eligible for state certification as an Emergency Medical Technician - Paramedic.
Repeatable 1 time.

110  CONFINED SPACE RESCUE AWARENESS  (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Provides fire personnel with the information necessary to identify non-permit and permit required confined spaces and introduces personnel to the equipment and procedures required to deal with a confined space safely and legally. This course is mandatory for all CAL FIRE/SLO County Fire Department personnel, full-time and paid-call.
Repeatable 3 times.

111  INTRODUCTION TO SURF RESCUE  (1.0)
1.5 hours per week: (1.0 hours lecture, 0.5 hours laboratory)
Associate Degree Applicable
Advisory: Students should be in good physical condition and have the ability to swim.
122 LOW ANGLE ROPE RESCUE OPERATIONAL  
1.5 hours per week: (1.0 hours lecture, 0.5 hours laboratory)  
Associate Degree Applicable  
Instructs low angle rope rescue methods including ropes and knots, basic and advanced rappelling, setting anchors, using mechanical advantage systems, litter rigging, etc. This course is the basic and advanced class that meets the requirements for State Fire Marshal Low Angle Rescue.  
Repeatable 3 times.

113 PRINCIPLES OF VEHICLE EXTRICATION  
1.0 hours per week: (0.5 hours lecture, 0.5 hours laboratory)  
Associate Degree Applicable  
Provides students with hands-on experience in the procedures and systems utilized during an automobile extrication. Subjects covered include auto extrication, types of hand and power tools, removing windows, opening doors, removing roofs, pulling steering wheels, moving foot pedals, raising dashboards, pulling seats, stabilization of vehicles, and simulated rescues of trapped victims.  
Repeatable 3 times.

114 BASIC FIRE GROUND APPARATUS PUMPING OPERATIONS  
1.0 hours per week: (0.5 hours lecture, 0.5 hours laboratory)  
Associate Degree Applicable  
Advisory: Students need to be in good standing with a fire agency (SLO County Fire personnel must be an active member of a PCF Company) to take this course.  
Provides students with the basic knowledge and skills necessary to safely pump a variety of fire apparatus. Course topics include: pump operation theory, fire apparatus maintenance, field hydraulics, and pump operation procedures. This course meets the requirements for California State Fire Marshal certification.  
Repeatable 3 times.

115 EMERGENCY VEHICLE OPERATIONS COURSE: FIRE APPARATUS  
1.0 hours per week: (0.5 hours lecture, 0.5 hours laboratory)  
Associate Degree Applicable  
Prerequisite: Students must have a fire fighter restricted or Class B license with DMV air brake and tank endorsement. Students need to be in good standing with a fire agency. Must be in good standing as a CALFIRE employee. If the applicant has PCF status, they must be cleared through their station supervisor to enroll.  
Provides students with the basic knowledge and skills necessary to safely drive a fire apparatus. Course topics include regulations, techniques, safety considerations, inspections, maintenance and simulated driving scenarios.  
Repeatable 3 times.

116 HAZARDOUS MATERIALS FIRST RESPONDER & DECONTAMINATION FIRE  
1.3 hours per week: (1.0 hours lecture, 0.3 hours laboratory)  
Associate Degree Applicable  
Provides first responders with the knowledge and skills necessary to safely respond to hazardous materials calls that also include decontamination. Course topics include hazardous material situations, safety and protective equipment, procedures, notifications, pre-planning methods, and decontamination. This course is a PCF/Cal Fire requirement.  
Repeatable 3 times.

117 INCIDENT COMMAND SYSTEM INTERMEDIATE  
1.5 hours lecture per week  
Associate Degree Applicable  
Provides students with an intermediate level of Incident Command System understanding. Course topics consist of organizational staffing, organizing for incidents or events, incident resource management, air operations, incident and event planning. Course also includes National ICS Curriculum. Intended for those who may be serving in unit leadership positions in the near future and is a JAC requirement.  
Repeatable 3 times.

118 PAID CALL FIREFIGHTER TRAINING  
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Provides entry-level training experience for individuals joining or serving with a fire department as a volunteer. Lecture and manipulative practice skills topics include: general safety, basic fire chemistry/behavior, breathing apparatus, portable fire extinguisher, forcible entry, rescue, ladders, water supply, hose loads, fire streams, communications, salvage operations, ventilation techniques and wildland fire safety.  
Repeatable 3 times.

119 RIVER AND FLOOD WATER RESCUE  
1.3 hours per week: (1.0 hours lecture, 0.3 hours laboratory)  
Associate Degree Applicable  
Trains fire service personnel in techniques necessary for safe water rescue. Course topics include: swift water rescue, submerged vehicles, drowning, use of engine/truck company equipment for water rescue, use of rafts and boats, and underwater search and recovery. Swimming competency and physical ability in the water will be tested at the beginning of class.  
Repeatable 3 times.

120 FIRE INSTRUCTOR 1A: INSTRUCTIONAL TECHNIQUES  
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)  
Associate Degree Applicable  
Prepares fire personnel for a Training Officer position. The course includes topics of: occupational analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning and application of a teaching plan. Student teaching lessons are required of all.  
Repeatable 3 times.

121 FIRE INSTRUCTOR 1B: INSTRUCTIONAL TECHNIQUES  
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)  
Associate Degree Applicable  
Prepares fire personnel for a Training Officer position. The course includes topics of: course outlines, establishing levels of instruction, co-relating behavioral objectives and lesson plans with course outcomes, developing instructional aids, fundamentals of testing and measurements, test planning, evaluation techniques and tools. Student teaching lessons are required of all.  
Repeatable 3 times.

123 BASIC WILDLAND BRIDGE TRAINING  
2.2 hours per week: (1.5 hours lecture, 0.7 hours laboratory)  
Associate Degree Applicable  
Prerequisite: EMS 118 or equivalent.  
Instruct students in a combination of 32 hours of wildland specific instruction with the instruction students have received in the Paid Call Fire Fighter course to meet the requirements set forth by CAL FIRE and the CAL FIRE Basic Wildland Fire Fighter course. The certificate is recognized by CAL FIRE as meeting the standards set in Hand Book 4300 for the CAL FIRE Basic Wildland Fire Fighter 1 Wildland training. To enroll in the course, students must have a State Fire Marshal Fire Fighter 1 certificate within the last three years or have completed the San Luis Obispo County Volunteer Firefighter Academy or Paid Call Fire Fighter Instruction Course within the last three years.  
Repeatable 3 times.

124 BASIC 67 HOUR WILDLAND TRAINING COURSE  
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)  
Associate Degree Applicable  
Prepares students with basic fire fighter knowledge and skills. Course consists of lecture and arduous manipulative skills and meets or exceeds the minimum level of training required by CAL FIRE handbook 4300.  
Repeatable 3 times.

125 RESCUE SYSTEMS 1: BASIC RESCUE SKILLS  
2.2 hours per week: (0.5 hours lecture, 1.7 hours laboratory)  
Associate Degree Applicable  
Instructs emergency response personnel in a variety of basic rescue systems. Course topics include: team organization, rescue, environmental considerations,
use of ropes, knots, rigging and pulley systems, descending, rapping and belaying tools and techniques, subsurface rescue techniques, use of cribleting, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescued situations and day and night simulated exercises.

Repeatable 3 times.

126  FIRE INVESTIGATION 1A: FIRE ORIGIN AND CAUSE DETERMINATION (2.0)
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)
Associate Degree Applicable
Provides students with an introduction and basic overview of fire scene investigation. The course focuses on providing information on fire scene indicators and determining a fire's origin. The class is intended for fire fighters, fire investigators and law enforcement assigned to fire investigation.
Repeatable 3 times.

127  FIRE INVESTIGATION 1B: TECHNIQUES OF FIRE INVESTIGATION (2.0)
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)
Associate Degree Applicable
Prerequisite: EMS 126 or equivalent.
Provides a deeper understanding of fire investigation. Topics include: the juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives and fire fatalities. Course is intended for fire fighters and fire investigation personnel.
Repeatable 3 times.

128  FIRE COMMAND 1A: COMMAND PRINCIPLES FOR COMPANY OFFICERS (2.0)
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)
Associate Degree Applicable
Provides instruction and simulation time pertaining to the initial decision and action processes at a working fire for first-in incident commanders and company officers. Topics include: the fire officer, fire behavior, fireground resources, operations and management.
Repeatable 3 times.

129  FIRE COMMAND 1B: INCIDENT MANAGEMENT FOR COMPANY OFFICERS (2.0)
2.2 hours per week: (2.0 hours lecture, 0.2 hours laboratory)
Associate Degree Applicable
Provides the student with information on tactics, strategies and scene management for multi-casualty incidents, hazardous materials incidents and wildland fires. Each student also has the opportunity to increase knowledge and skills by handling initial operations at these types of incidents through simulations and class activities.
Repeatable 3 times.

130  EMERGENCY MEDICAL RESPONDER - INITIAL (3.0)
3.38 hours per week: (3.0 hours lecture, 0.38 hours laboratory)
Associate Degree Applicable
Prerequisite: (1) Student must be 18 years of age by the first class meeting (2) Have a current Red Cross Healthcare Provider CPR/AED Card (3) Affiliated with a fire agency
The Emergency Medical Responder (EMR) initial course is designed to train fire service personnel to render prehospital basic life support care under field emergency conditions. EMR-Initial complies with the National EMS Education Standards for Emergency Medical Responder. Must have a valid EMR Certificate in order to register for the course.
Repeatable.

131  EMERGENCY MEDICAL RESPONDER - REFRESHER (1.5)
1.72 hours per week: (1.5 hours lecture, 0.22 hours laboratory)
Associate Degree Applicable
Prerequisite: Valid EMR Certificate within the last (6) months and must be affiliated with fire agency
The Emergency Medical Responder (EMR) refresher course is designed to recertify fire safety personnel to render prehospital basic life support care under field emergency conditions. EMR refresher complies with the National EMS Education Standards for Emergency Medical Responder. Must have a valid EMR Certificate within the last six (6) months and a copy will need to be received in CalFire Office in order to register for the course.
Repeatable 3 times.

193  EMERGENCY MEDICAL SERVICES SPECIAL TOPIC (4.0 to 0.5)
(Formerly EMS 93)
Associate Degree Applicable
Prerequisite: Valid EMR Certificate within the last (6) months and must be affiliated with a fire agency
Provides a deeper understanding of fire investigation. Topics include: the juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives and fire fatalities. Course is intended for fire fighters and fire investigation personnel.
Repeatable 3 times.

143  LITERATURE BY LOCAL AUTHORS (0.0)
(Formerly EMCOLL 400)
3.0 hours lecture per week
Presents discussion of selected novels, short story collections, and poetry by San Luis Obispo area writers. These works are considered in the context of contemporary fiction and poetry using techniques of reading, analysis, and discussion. This course is designed for adults over 50.
Repeatable.

401  WRITING BITS AND PIECES OF PERSONAL HISTORY (0.0)
(Formerly EMCOLL 401)
3.0 hours lecture per week
Introduces the use of memoirs, essays, vignettes, and letters to write small incidents of personal history after reading and discussing examples of these genres. Student writing is read, discussed, revised, and edited.
This course is designed for adults over 50.
Repeatable.

402  WRITERS’ WORKSHOPS FOR SENIORS (0.0)
(Formerly EMCOLL 402)
3.0 hours lecture per week
Introduces the use of memoirs, essays, vignettes, and letters to write small incidents of personal history after reading and discussing examples of these genres. Student writing is read, discussed, revised, and edited.
This course is designed for adults over 50.
Repeatable.

404  OLDER ADULTS - PUBLISHING A BOOK (0.0)
(Formerly EMCOLL 404)
3.0 hours lecture per week
Introduces the use of memoirs, essays, vignettes, and letters to write small incidents of personal history after reading and discussing examples of these genres. Student writing is read, discussed, revised, and edited.
This course is designed for adults over 50.
Repeatable.

405  OLDER ADULTS COMPOSING YOUR LIFE STORY WORKSHOP (0.0)
(Formerly EMCOLL 405)
3.0 hours lecture per week
Introduces the use of memoirs, essays, vignettes, and letters to write small incidents of personal history after reading and discussing examples of these genres. Student writing is read, discussed, revised, and edited.
This course is designed for adults over 50.
Repeatable.
406  COMPOSING YOUR LIFE STORY  (0.0)
(Formerly EMCCOL 406)
3.0 hours lecture per week
Presents the process of ordering and developing chronologically a personal
history, including introductory genealogical research and preservation of family
historical materials. This course is designed for adults over 50.
Repeatable.

408  BEGINNING MUSIC ARTS FOR SENIORS  (0.0)
(Formerly EMCCOL 408)
3.0 hours lecture per week
Develops critical listening ability and enriches musical experiences with the
study of style, intonation, and lyrical content of musical selections. Attendance
at concerts and preliminary and follow-up discussions help students to become
more critical listeners.
Repeatable.

409  SENIOR CHORUS  (0.0)
(Formerly EMCCOL 409)
3.0 hours lecture per week
Studies choral literature including selections from the 16th century to the pres-
ent, encompassing numerous musical styles. The class presents vocal exercises,
fundamentals of music theory, and the aesthetics of music. A performance for
family and friends may conclude the class. This course is designed for adults
over 50.
Repeatable.

410  THE OLDER ADULTS GUIDE TO MAINTAINING YOUR
PERSONAL RECORDS  (0.0)
(Formerly EMCCOL 410)
3.0 hours lecture per week
Presents information about maintaining a master list of personal records:
income tax data, pension and paycheck information, financial records including
bank and investment details, will and letter of instructions, health and insurance
records, possessions inventory. This course is designed for adults over 50.
Repeatable.

411  CREATIVE WRITING FOR SENIORS  (0.0)
(Formerly EMCCOL 411)
3.0 hours lecture per week
Introduces the writing of creative nonfiction, plays, poetry, OR short fiction.
Students read and discuss published writing and workshop their own writing.
This course is designed for adults over 50.
Repeatable.

412  BRAIN LONGEVITY: WAYS TO PRESERVE & RESTORE
MEMORY ADULTS 50+  (0.0)
(Formerly EMCCOL 412)
0.5 hours lecture per week
Designed for the adult 50+, this class will present information about brain
longevity, including preventing and reversing memory loss effects of diet and
physical and mental exercises; causes and treatments of Alzheimer’s disease; and
psychological approaches to memory preservation.
Repeatable.

413  PASTEL DRAWING AND PAINTING FOR SENIORS  (0.0)
(Formerly EMCCOL 413)
3.0 hours lecture per week
Introduces the techniques and materials of pastel with emphasis on color, form,
value, composition, perspective, and visual creativity. Subjects covered include
landscape components, still life, and the human form. This course is designed
for adults over 50.
Repeatable.

414  DRAWING FOR SENIORS  (0.0)
(Formerly EMCCOL 414)
3.0 hours lecture per week
Presents basic skills of drawing with an opportunity to experience using pen and
ink, charcoal, conte crayon. This course is designed for adults over 50.
Repeatable.

415  YOGA FOR SENIORS  (0.0)
(Formerly EMCCOL 415)
3.0 hours laboratory per week
Presents yoga to enhance health and well-being. Instruction and practice
includes passive exercise adapted for students over the age of 50, relaxation
while stretching, strengthening, deep breathing, postural alignment, yoga asanas
(postures) to enhance and develop full range of motion, flexibility of muscles,
strengthening of musculature while holding poses. This course is designed for
adults over 50.
Repeatable.

417  LAWS AND PROGRAMS AFFECTING ADULTS 50+
(0.0)
(Formerly EMCCOL 417)
0.5 hours lecture per week
Designed for the adult 50+, this class will present information about laws
and programs affecting older citizens such as Medicare, Medi-Cal, SSI; energy,
nutrition, transportation; legal assistance; education and recreation; veterans’
benefits; home health and day care.
Repeatable.

418  FOCUSED READING FOR OLDER ADULTS  (0.0)
(Formerly EMCCOL 418)
3.0 hours lecture per week
Presents a guided reading of a particular literary genre—short story, poetry,
novel, drama, including analysis and discussion, historical and biographical
information about the writer. This course is designed for adults over 50.
Repeatable.

420  FINANCE: WILLS AND TRUSTS  (0.0)
(Formerly EMCCOL 420)
3.0 hours lecture per week
Presents the pros and cons of wills and trusts, the process of probate, the types
of trusts and of powers of attorney. Students find out what they need to know
to make informed estate-planning decisions. This course is designed for adults
over 50.
Repeatable.

421  GREAT LITERATURE: SELECTED READING  (0.0)
(Formerly EMCCOL 421)
3.0 hours lecture per week
Presents a guided reading of a selected great work of literature such as Dante’s
Inferno or Virgil’s Aeneid or a play by William Shakespeare. Reading selection
changes each session. Discussion of theme, setting, characterization occurs in
class; in addition, students read aloud portions of the work and learn about the
historical and cultural context of its writing. This course is designed for adults
over 50.
Repeatable.

422  ACCOUNTING: FINANCIAL STATEMENTS  (0.0)
(Formerly EMCCOL 422)
3.0 hours lecture per week
Presents the content and construction of financial statements, and the interpre-
tation and application of their contents. This course is designed for adults over
50.
Repeatable.

423  ART: WATERCOLOR  (0.0)
(Formerly EMCCOL 423)
3.0 hours lecture per week
Introduces the fundamentals of watercolor. Planning and preparation, color
mixing and theory, design and composition, perspective are included. Several
painting techniques and criteria for evaluation are taught as students create and
critique their work. This course is designed for adults over 50.
Repeatable.
Repeatable.

425  ART HISTORY  (0.0)
(Formerly EMCOLL 425)
3.0 hours lecture per week
Presents an overview of art emphasizing historical development and cultural influences. Discussion and evaluation of works may center on a particular period or type of art such as modernism or impressionism or folk art, or may be a more general presentation spanning several centuries. This course is designed for adults over 50.
Repeatable.

427  CREATIVE COOKING & HEALTH EATING FOR ADULTS 50+  (0.0)
(Formerly EMCOLL 427)
1.0 hours lecture per week
Designed for the adult 50+, this class presents healthy food and cooking choices that maintain optimum health for active older adults. Students learn basic concepts of nutrition as well as how to prepare tasty, flavorful and nutritious meals based on those concepts, using fresh food from local markets.
Repeatable.

428  FILM APPRECIATION  (0.0)
(Formerly EMCOLL 428)
3.0 hours lecture per week
Studies major films to consider historical context, dramatic issues, artistic and technical objectives, and the process and elements of filmmaking. This course is designed for adults over 50.
Repeatable.

429  PHOTOGRAPHY: EQUIPMENT AND TECHNIQUES  (0.0)
(Formerly EMCOLL 429)
3.0 hours lecture per week
Presents camera choices, developing and printing techniques available through commercial developers, light and composition, and traveling with a camera. This course is designed for adults over 50.
Repeatable.

431  TRANSITIONS: MIDLIFE AND BEYOND  (0.0)
(Formerly EMCOLL 430)
3.0 hours lecture per week
Examines the changes of midlife and beyond such as retirement, bereavement, travel, community involvement, and grandparenting, with the intent to discuss, anticipate, and respond to concerns and challenges.
Repeatable.

432  GENEALOGICAL RESEARCH  (0.0)
(Formerly EMCOLL 432)
3.0 hours lecture per week
Provides an introduction to and overview of genealogical research, including the collection of genealogical information from a variety of sources and the composition of pedigree charts and history sheets. This course is designed for adults over 50.
Repeatable.

433  SENIOR SEMINAR FOR ADULT 50+  (0.0)
(Formerly EMCOLL 433)
1.0 hours lecture per week
Discover the influences and connections between ideas, values and concepts on a variety of topics of interest to the older adult. In a setting that encourages dialogue and interaction this class covers topics in areas such as, health, culture, philosophy, psychology, literature, current events, science and history. Students are encouraged to share and compare life experiences and learn about international, national and/or local events and issues.
Repeatable.

434  EXPLORATION IN ART FOR ADULTS 50+  (0.0)
(Formerly EMCOLL 434)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Designed for adults 50+, this class encourages art appreciation, self expression and creativity in a variety of art media. Projects give students experience with different creative non-traditional artistic methods and artistic design techniques, tools and material.
Repeatable.

435  EXPLORE NATURAL/CULTURAL WONDERS: CENTRAL COAST-ADULTS 50+  (0.0)
(Formerly EMCOLL 435)
1.5 hours laboratory per week
Introduces senior adults to adventures and activities associated with the natural and cultural wonders of the Central Coast, including nature protection and awareness, cultural preservation, volunteer and docent opportunities. The class involves visits to sites such as nature preserves, State Parks, museums, as well as sites of cultural and historic significance.
Repeatable.

436  MUSIC ARTS FOR ADULTS 50+  (0.0)
(Formerly EMCOLL 436)
2.0 hours lecture per week
Designed for the adult 50+, this course encourages appreciation of music from different time periods and genres. Through active participation in discussions, musical reminiscence and activities students learn about a variety of genres, including popular, jazz, classical, American traditional folk, blues, gospel, international and world.
Repeatable.

439  COMPUTER BASICS FOR OLDER ADULTS 50+  (0.0)
(Formerly EMCOLL 439)
1.5 hours lecture per week
Designed for the adult 50+, this course introduces computer basics including machine functions, keyboard use, fundamental word processing, email and web browsing.
Repeatable.

470  ADAPTED EXERCISE FOR FRAIL OLDER ADULTS  (0.0)
(Formerly EMCOLL 470)
2.0 hours laboratory per week
Designed for the maintenance of the physical and mental well-being of the frail older adult, this course is geared to increasing strength, range of motion/ flexibility, balance, agility, eye/hand and foot coordination, enhancing the circulatory system and increasing mental alertness of the older adult. Techniques are adapted to meet the needs of older adults at their various fitness levels and functional capacities.
Repeatable.

471  MUSIC ARTS FOR FRAIL OLDER ADULTS  (0.0)
(Formerly EMCOLL 471)
2.0 hours laboratory per week
Designed for the frail older adult, this course encourages appreciation of music from different time periods and genres. Through active participation in discussions, musical reminiscence, sing-along and rhythmic activities the older adult student will be exposed to a variety of music.
Repeatable.
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COURSES

ENGINEERING [ENGR]

472  CREATIVe ARTS FOR FRAIL OLDER ADULTS  (0.0)
(Formerly EMCOLL 472)
2.0 hours laboratory per week
Designed for the frail older adult, this course provides physical and mental stimulation through a variety of art media. Projects encourage art expression and appreciation through art in artistic design, artistic methods, techniques, tools and materials. Eye-hand (fine motor) coordination will be utilized to develop, stimulate and enhance psycho-motor, perceptual, and cognitive skills. Repeatable.

473  FUN WITH FOOD FOR FRAIL OLDER ADULTS  (0.0)
(Formerly EMCOLL 473)
2.0 hours laboratory per week
Designed for the frail older adult, this course offers a large variety of food preparation topics related to the health and well being of the older adult. Diverse topics of interest such as nutrition, consumerism, cultural traditions, entertaining, health and safety will be discussed. Repeatable.

474  REMINISCING FOR FRAIL OLDER ADULTS  (0.0)
(Formerly EMCOLL 474)
2.0 hours laboratory per week
Presents to frail older adults various topics as a basis for reminiscing about their life experiences and for recalling cultural and historical events that marked their lives. Repeatable.

125  AUTOCAD  (1.0)
(Formerly ENGR 25)
6.0 hours per week: (4.0 hours lecture, 2.0 hours laboratory)
Associate Degree Applicable
Advisory: CIS 210 or basic knowledge of a Windows operating environment. Introduction to AutoCAD. Topics include all basic drawing commands, layers, dimensioning, and editing objects. Intended for those students wanting to learn the software and not necessarily how to draw. Ideal for professional engineers and architects or students in architecture or interior design. This course is exactly the same material as the first six weeks of ENGR 226 (18 week course). Repeatable 1 time.

193  ENGINEERING SPECIAL TOPIC  (4.0 to 0.5)
(Formerly ENGR 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

195  TECHNICAL CAREER PREPARATION IN ENGINEERING  (1.0)
(Formerly ENGR 95)
1.0 hours lecture per week
Associate Degree Applicable
Overview of engineering careers with focus on preparing for the job market. Includes discussion of career opportunities in engineering, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the engineering industry. Repeatable 2 times.

210  COMPUTATIONAL METHODS FOR ENGINEERS  (3.0)
(Formerly ENGR 10)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of MATH 265A or higher OR concurrent enrollment in MATH 265A.
Advisory: PHYS 205A or 208A.
Methodology and techniques for solving engineering/science problems using numerical-analysis computer-application programs MATLAB and EXCEL. Technical computing and visualization of problems in mechanics, electrical circuits, thermal systems, fluid systems and other branches of engineering. Transfer: CSU.

217  INTRODUCTION TO ELECTRONIC CIRCUIT ANALYSIS  (4.0)
(Formerly ENGR 17)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: PHYS 208B
Presents an integrated transient and steady-state analysis of linear DC and AC circuits by use of the mesh and node approach. Examines network theorems, phasors, complex-frequency concepts, and computer circuit analysis. Transfer: CSU; UC.

219  DIGITAL DESIGN  (4.0)
(Formerly ENGR 19)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CIS 217 or CIS 231
Presents standard material on binary arithmetic, Boolean algebra, Combinational and sequential logic circuits, and finite state machines, for computer and electrical engineers. Hardware Description Language (HDL) is used to synthesize digital logic circuits in Programmable Logic Devices (PLDs). Transfer: CSU.

226  ENGINEERING DRAWING I  (4.0)
(Formerly ENGR 26)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduction to engineering drawing using AutoCAD. Topics include geometric construction, orthographic projection, isometrics, sectionals, auxiliaries, descriptive geometry, dimensioning, and working drawings. The first six weeks of this course are the same as ENGR 25. Repeatable 3 times. Transfer: CSU; UC.

227  ENGINEERING DRAWING I  (3.0)
(Formerly ENGR 27)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: ENGR 125 or ENGR 226
Presents advanced subjects in engineering drawing using AutoCAD and Inventor. Course topics include 3D, macros, customization, and an introduction to AutoLisp. Repeatable 3 times. Transfer: CSU; UC.

245  MATERIALS ENGINEERING  (3.0)
(Formerly ENGR 45)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CHEM 1A
Presents the fundamentals of the structure of matter. Introduces physical and mechanical properties of materials including metals, alloys, ceramics, insulating materials, semi-conductors, and polymers. Provides a study of heat treatments, materials selection, corrosion phenomena, and equilibrium diagrams. Transfer: CSU; UC.

246  MATERIALS ENGINEERING  (2.0)
(Formerly ENGR 46)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: CHEM 201A, MATH 265A
Corequisite: ENGR 246L
Presents the fundamentals of the structure of matter. Introduces physical and mechanical properties of materials including metals, alloys, ceramics, semi-conductors, and polymers. Provides a study of heat treatments, materials selection, corrosion phenomena, and equilibrium diagrams. Transfer: CSU; UC.

246L  ENGINEERING MATERIALS LAB  (1.0)
(Formerly ENGR 46L)
3.0 hours laboratory per week
Associate Degree Applicable
247  INDEPENDENT STUDIES: ENGINEERING  
(2.0 to 0.5) 
(Formerly ENGR 47) 
6.0 hours laboratory per week 
Associate Degree Applicable 
Prerequisite: The student must have completed preparatory course work in the technical field in which the study is to be undertaken. 
Provides an opportunity for in-depth study or practicum experience by an individual student in a selected topic in the engineering area with support and direction from an instructor. 
Repeatable 3 times. 
Transfer: CSU; UC. 

250  ENGINEERING STATICS  
(Formerly ENGR 50) 
3.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: PHYS 208A 
Analyzes forces on structures in equilibrium, properties of forces, moments, couples and resultant, conditions for equilibrium, friction, centroids, and area moments of inertia. Introduces mathematical modeling and problem-solving utilizing vector mathematics. 
Transfer: CSU; UC. 

251  ENGINEERING DYNAMICS  
(Formerly ENGR 51) 
3.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 250 
Analyzes the dynamics associated with motion of rigid bodies and particles, including velocity, acceleration, relative motion, energy, work, momentum, and impulse. Utilizes vector mathematics. 
Transfer: CSU; UC. 

252A  STRENGTH OF MATERIALS I  
(Formerly ENGR 52A) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 250 
Study of stresses, strains, and deformations associated with axial, torsional, and flexural loading of bars, shafts, and beams. Includes analysis of elementary determinate and indeterminate mechanical and structural systems. 
Transfer: CSU; UC (For UC, both ENGR 252A and 252B must be completed in order to receive transfer credit). 

252B  STRENGTH OF MATERIALS II  
(Formerly ENGR 52B) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A 
Study of stress and strain transformations, analysis of beam deflection and rotation, indeterminate beams, and column buckling. 

260  STRUCTURAL SYSTEMS FOR ARCHITECTS  
(Formerly ENGR 60) 
2.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 250 
Introduces the concepts of structural integrity and stability, structural subsystems, and methods of analysis. 
Transfer: CSU. 

ENGLISH [ENGL] 

099  BASIC READING AND WRITING  
(Formerly ENGL 100) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGL 201A with a grade of C or better 
Provides a basic course in sentence and paragraph construction, with limited introduction to the essay. 
Transfer: CSU; UC. 

156  COLLEGE READING AND WRITING  
(Formerly ENGL 56) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A and 252B must be completed in order to receive transfer credit. 
Introduces the concepts of structural integrity and stability, structural subsystems, and methods of analysis. 
Transfer: CSU; UC. 

193  ENGLISH SPECIAL TOPICS  
(Formerly ENGL 93) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A and 252B must be completed in order to receive transfer credit. 
Introduces the concepts of structural integrity and stability, structural subsystems, and methods of analysis. 
Transfer: CSU; UC. 

201A  ENGLISH COMPOSITION  
(Formerly ENGL 1A) 
4.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A and 252B must be completed in order to receive transfer credit. 
Provides an introduction to the study of literature with an emphasis in both literary composition and critical thinking. This course emphasizes the development of critical thinking and writing skills through the close study of major genres of literature: poetry, fiction, and drama. Students receive further instruction in analytical and argumentative writing through examination and development of comprehensive literary discourse, identifying sound and fallacious methods of reasoning in critical assessments of literature. 
Transfer: CSU; UC. 

201B  ENGLISH COMPOSITION: INTRODUCTION TO LITERATURE  
(Formerly ENGL 1B) 
3.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A and 252B must be completed in order to receive transfer credit. 
Provides an introduction to the study of literature with an emphasis in both literary composition and critical thinking. This course emphasizes the development of critical thinking and writing skills through the close study of major genres of literature: poetry, fiction, and drama. Students receive further instruction in analytical and argumentative writing through examination and development of comprehensive literary discourse, identifying sound and fallacious methods of reasoning in critical assessments of literature. 
Transfer: CSU; UC. 

201C  ENGLISH COMPOSITION: CRITICAL THINKING  
(Formerly ENGL 1C) 
3.0 hours lecture per week 
Associate Degree Applicable 
Prerequisite: ENGR 252A and 252B must be completed in order to receive transfer credit. 
Provides an introduction to the study of literature with an emphasis in both literary composition and critical thinking. This course emphasizes the development of critical thinking and writing skills through the close study of major genres of literature: poetry, fiction, and drama. Students receive further instruction in analytical and argumentative writing through examination and development of comprehensive literary discourse, identifying sound and fallacious methods of reasoning in critical assessments of literature. 
Transfer: CSU; UC.
Presents a composition course beyond ENGL 201A which emphasizes critical thinking and reading in order to develop further logical reasoning and analytical and argumentative writing skills.

**205 INTRODUCTION TO POETRY**
(Formerly ENGL 5)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Advisory: ENGL 201B.
Introduces the study of poetry with emphasis on understanding, analysis, and appreciation of poetry through an in-depth examination of a variety of literary works.

Transfer: CSU; UC.

**206 INTRODUCTION TO THE NOVEL**
(Formerly ENGL 6)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Advisory: ENGL 201B.
Introduces the study of the novel with emphasis on understanding, analysis, and appreciation of the novel through an in-depth examination of a variety of literary works.

Transfer: CSU; UC.

**210 TECHNICAL WRITING AND ORAL COMMUNICATION**
(Formerly ENGL 1)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: English 201A: English Composition or Equivalent
Presents an overview of the principles of technical writing. Discussion and application of rhetorical principles, both oral and written, as they pertain to technical writing. Study of methods, resources, and common formats used in technical environments.

Transfer: CSU; UC.

**212A AMERICAN LITERATURE**
(Formerly ENGL 12A)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Presents a survey of American literature from the pre-colonial period to the Civil War. Introduces the study of major American writers against their historical backgrounds. Such writers as Bradstreet, Paine, Franklin, Jefferson, Poe, Cooper, Irving, Bryant, Melville, Hawthorne, Longfellow, Emerson, Thorau, Whitman, and Dickinson are studied.

Transfer: CSU; UC.

**212B AMERICAN LITERATURE**
(Formerly ENGL 12B)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
The study of major America writers from the Civil War up through contemporary times. Includes writers such as Twain, Howells, Cranc, London, Hemingway, Steinbeck, Faulkner, Wright, Dos Passos, Frost, Pound, Eliot, Stevens, Cummings, O’Neill, Tennessee Williams, Arthur Miller, O’Connor, Alice Walker, Berryman, Lowell, Sexton and Plath.

Transfer: CSU; UC.

**213 MULTICULTURAL VOICES IN AMERICAN LITERATURE**
(Formerly ENGL 13)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Introduces current literary study which focuses upon issues of race, gender, class, sexual orientation, and ethnicity in American literature. Surveys American history and culture in the context of its multicultural literary tradition from the early Native American tradition to present day. Emphasizes the formation of minority discourse against and within American mainstream culture and its literary tradition. Uses poems, novels, short stories, and essays for study.

Transfer: CSU; UC.

**215 SHAKESPEARE**
(Formerly ENGL 15)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Introduces Shakespeare’s works with emphasis on analysis of character and structured scene and requires preparation of critical papers based on analytical reading and investigation.

Transfer: CSU; UC.

**216 LITERATURE AND FILM**
(Formerly ENGL 16)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Presents the techniques of literary criticism to analyze films and the literary works that inspired them. Examines narrative in film and the criteria for evaluating films and literature emphasizing objective analysis and comparison and contrast.

Transfer: CSU; UC.

**217 LITERATURE BY WOMEN**
(Formerly ENGL 17)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Presents a survey of literature by women of English-speaking countries from the Middle Ages to the 21st century, with an emphasis on comparing historically oppressed women writers (including African-American and lesbian writers) to those in the mainstream. Authors covered include Phillis Wheatley, Anne Bradstreet, Mary Wollstonecraft, Jane Austen, Sojourner Truth, Harriet Beecher Stowe, Kate Chopin, Willa Cather, Gertrude Stein, Virginia Woolf, Zora Neale Hurston, Anne Sexton, Maya Angelou, Adrienne Rich, Toni Morrison, Sylvia Plath, Audre Lorde, Alice Walker, and Louise Erdrich.

Transfer: CSU; UC.

**231 CREATIVE WRITING**
(Formerly ENGL 31)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ENGL 201A with a grade of C or better
Presents an opportunity for creative literary expression and emphasizes techniques in writing poems, and/or short stories, and/or plays for informal discussion and criticism by the class and by the instructor. Provides the opportunity to discover one's talent and to practice writing skills.

Transfer: CSU; UC.

**242H HONORS SEMINAR: ENGLISH COMPOSITION**
(Formerly ENGL 42H)
1.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in ENGL 201A
Provides the opportunity for broadening a student's background in general education and for providing study and practice in greater depth in writing. Emphasis is on discussion and analysis of subject matter, issues related to the field of study and current advancements in the field. Open only to students admitted to the honors program.

Transfer: CSU.
ENGLISH SECOND LANGUAGE [ESL]

001 READING, WRITING, GRAMMAR AND CONVERSATION (6.0)
(Formerly ESL 1)
6.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: ESL Placement Test
Focuses on building English language skills for speakers of other languages with an emphasis on reading, writing, grammar, listening and speaking at the beginning level. May be taken concurrently with ESL 015, ESL 025, or ESL 035.

002 ESL READING, WRITING, AND GRAMMAR, LEVEL 2 (6.0)
(Formerly ESL 2)
6.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: High-beginning score on the ESL placement test or successful completion of ESL 001 with a grade of C or better
Focuses on building English language skills for speakers of other languages with an emphasis on reading, writing, grammar, listening and speaking at the high-beginning level. May be taken concurrently with ESL 015, ESL 025 or ESL 035.

003 ESL READING, WRITING, AND GRAMMAR, LEVEL 3 (6.0)
(Formerly ESL 3)
6.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Low-intermediate score on the ESL placement test or successful completion of ESL 002 with a grade of C or better
Focuses on building English language skills for speakers of other languages with an emphasis on reading, writing and grammar at the low-intermediate level. May be taken concurrently with ESL 015, ESL 025 or ESL 035.

004 ESL READING, WRITING, AND GRAMMAR, LEVEL 4 (6.0)
(Formerly ESL 4)
6.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Lower-advanced score on the ESL placement test or completion of ESL 004 with a grade of C or better
Focuses on building English language skills for speakers of other languages with an emphasis on reading, writing and grammar at the lower-advanced level. May be taken concurrently with ESL 015 and with ESL 035A, ESL 035B or ESL 035C.

005 ENGLISH AS A SECOND LANGUAGE, WRITING AND GRAMMAR 005 (6.0)
(Formerly ESL 5)
6.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Upper-advanced score on the ESL placement test or completion of ESL 005 with a grade of C or better
Focuses on building English language skills for speakers of other languages with an emphasis on writing and grammar at the upper-advanced level. May be taken concurrently with ESL 045 and with ESL 035A, ESL 035B or ESL 035C.

045 ENGLISH AS A SECOND LANGUAGE, ADVANCED READING 045 (3.0)
(Formerly ESL 006B)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Advanced score on the ESL placement test or completion of ESL 004 with a grade of C or better
Focuses on building English language skills for speakers of other languages with an emphasis on reading at the advanced level. May be taken concurrently with ESL 005 or ESL 006 and with ESL 035A, ESL 035B, or ESL 035C.
Focuses on basic communication skills in listening comprehension and speaking for speakers of other languages and enables the beginning-level student to function in common English-speaking situations. Prepares students for ESL 025A, 025B or 025C.

015B BEGINNING LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 15B)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Beginning-level score on the oral component of the ESL placement test
Focuses on basic communication skills in listening comprehension and speaking for speakers of other languages and enables the beginning-level student to function in common English-speaking situations. Prepares students for ESL 025A, 025B or 025C.

015C BEGINNING LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 15C)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Beginning-level score on the oral component of the ESL placement test
Focuses on basic communication skills in listening comprehension and speaking for speakers of other languages and enables the beginning-level student to function in common English-speaking situations. Prepares students for ESL 025A, 025B or 025C.

025A INTERMEDIATE LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 25A)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Intermediate-level score on the oral component of the ESL placement test or completion of ESL 015 or 015A or 015B or 015C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in every day English-speaking situations. Prepares students for ESL 035A, 035B or 035C.

025B INTERMEDIATE LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 25B)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Intermediate-level score on the oral component of the ESL placement test or completion of ESL 015 or 015A or 015B or 015C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in every day English-speaking situations. Prepares students for ESL 035A, 035B or 035C.

025C INTERMEDIATE LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 25C)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Intermediate-level score on the oral component of the ESL placement test or completion of ESL 015 or 015A or 015B or 015C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in every day English-speaking situations. Prepares students for ESL 035A, 035B or 035C.

035A ADVANCED LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 35A)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Advanced-level score on the oral component of the ESL placement test or completion of ESL 025 or 025A or 025B or 025C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the advanced-level student to function in academic, professional and everyday English-speaking situations.

035B ADVANCED LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 35B)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Advanced-level score on the oral component of the ESL placement test or completion of ESL 025 or 025A or 025B or 025C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the advanced-level student to function in academic, professional and everyday English-speaking situations.

035C ADVANCED LEVEL CONVERSATION (3.0 to 2.0)
(Formerly ESL 35C)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Advanced-level score on the oral component of the ESL placement test or completion of ESL 025 or 025A or 025B or 025C with a grade of C or better
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the advanced-level student to function in academic, professional and everyday English-speaking situations.

081 ENGLISH AS A SECOND LANGUAGE SKILLS LABORATORY-BEGINNING (0.5)
(Formerly ESL 101)
1.5 hours laboratory per week
Associate Degree Non-Applicable
Prerequisite: ESL placement test
Provides English as a Second Language students with specialized programs designed to improve reading, vocabulary, listening comprehension, pronunciation, grammar, idiomatic expression, conversation, and writing at the beginning level. NOTE: Students may register for two sections of lab. Repeatable 3 times.

082 ENGLISH AS A SECOND LANGUAGE SKILLS LAB – INTERMEDIATE (0.5)
(Formerly ESL 102)
1.5 hours laboratory per week
Associate Degree Non-Applicable
Advisory: ESL 002A and ESL 002B
Provides ESL students with specialized programs designed to improve reading, vocabulary, listening comprehension, pronunciation, grammar, idiomatic expression, conversation, word processing and writing at the intermediate level. Repeatable 3 times.

083 ENGLISH AS A SECOND LANGUAGE SKILLS LABORATORY – ADVANCED (0.5)
(Formerly ESL 103)
1.5 hours laboratory per week
Associate Degree Non-Applicable
Advisory: ESL 004A and ESL 004B
Provides ESL students with specialized programs designed to improve reading, vocabulary, listening comprehension, pronunciation, grammar, idiomatic expression, conversation, word processing and writing at the advanced level. Repeatable 3 times.

090 BEGINNING LITERACY AND STUDY SKILLS (6.0)
(Formerly ESL 90)
6.0 hours lecture per week
Associate Degree Non-Applicable
Advisory: ESL placement test
Develops students' literacy and study skills. Focuses on building basic reading and writing skills with an emphasis on the alphabet, spelling, word and sentence formation, classroom vocabulary, and beginning level grammar. Introduces students to skills essential for academic success. Topics include time management, materials organization, active listening, note taking, test preparation, and understanding the college learning environment. Repeatable 3 times.
FAMILY STUDIES [FMST]

193  ENGLISH AS A SECOND LANGUAGE SPECIAL TOPIC  
(Formerly ESL 93)  
Associate Degree Non-Applicable  
Examines a special topic in the field of study related to the discipline offering this course.  
(4.0 to 0.5)

193  FAMILY STUDIES SPECIAL TOPIC  
(Formerly FMST 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.  
(4.0 to 0.5)

701  ESL BEGINNING LITERACY - LEVEL 1  
(Formerly ESL 701)  
4.5 hours lecture per week  
The purpose of this course is to provide pre-literate students who have extremely limited or no reading/writing skills in their primary language with basic English necessary to function successfully in everyday encounters.  
Repeatable 3 times.

702  ESL BEGINNING LITERACY - LEVEL 2  
(Formerly ESL 702)  
4.5 hours lecture per week  
Provides students with basic skills at the beginning-low level in English through listening/speaking practice. Lifeskills, grammar, pronunciation, vocabulary, history, government, and culture are taught.  
Repeatable 3 times.

703  ESL BEGINNING HIGH - LEVEL 3  
(Formerly ESL 703)  
4.5 hours lecture per week  
Provides students with basic skills in English at the beginning-high level through listening/speaking practice. Lifeskills, grammar, pronunciation, vocabulary, history, government, and culture are taught.  
Repeatable 3 times.

704  ESL INTERMEDIATE LOW - LEVEL 4  
(Formerly ESL 704)  
4.5 hours lecture per week  
Provides students with basic skills in English at the intermediate-low level through listening/speaking practice. Lifeskills, grammar, pronunciation, vocabulary, history, government, and culture are taught.  
Repeatable 3 times.

705  ESL INTERMEDIATE HIGH - LEVEL 5  
(Formerly ESL 705)  
4.5 hours lecture per week  
Provides students with basic skills in English at the intermediate-high level through listening/speaking practice. Lifeskills, grammar, pronunciation, vocabulary, history, government, and culture are taught.  
Repeatable 3 times.

706  ESL ADVANCED - LEVEL 6  
(Formerly ESL 706)  
4.5 hours lecture per week  
Provides students with basic skills in English at the advanced level through listening/speaking practice. Lifeskills, grammar, pronunciation, vocabulary, history, government, and culture are taught.  
Repeatable 3 times.

707  U. S. CITIZENSHIP  
(Formerly ESL 707)  
3.0 hours lecture per week  
Designed to provide non-U.S. citizens with an in-depth study of the federal and state system of government and the U. S. Constitution. This class will also prepare students for the U.S. Citizenship and Immigration Service application process and oral interview.  
Repeatable 3 times.

708  ESL FOR SOCIAL COMMUNICATION  
(Formerly ESL 708)  
2.0 hours per week; (0.5 hours lecture, 1.5 hours laboratory)  
Advisory: Completion of ESL 703 (Beginning High) or VESL 702, or equivalent language skills.

Focuses on conversational strategies for appropriate interaction in American work and social settings. This multi-level ESL course includes discussions about crosscultural factors in communication and social customs and practices.  
Repeatable 3 times.

201  INTRODUCTION TO HUMAN SERVICES  
(Formerly FMST 10)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Presents an overview and history of the human services, with emphasis on the groups needing services in contemporary society. Acquaints students with career opportunities in, and the education and job requirements of the different services.  
Transfer: CSU.

202  CHILD, FAMILY AND COMMUNITY  
(Formerly FMST 2)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: ENGL 156.  
Life Management provides individuals with skills for understanding and using internal and external resources to function effectively in society now and in the future. Major topics covered in the course include: the effects of cultural forces and future trends on values, standards, and goals; skills for decision making, time, personal energy, stress, and conflict management; and techniques for improving self-esteem and self-understanding, values clarification, and interpersonal relationships.  
Transfer: CSU; UC.

205  LIFE MANAGEMENT  
(Formerly FMST 5)  
3.0 hours lecture per week  
Associate Degree Applicable  
Life Management provides individuals with skills for understanding and using internal and external resources to function effectively in society now and in the future. Major topics covered in the course include: the effects of cultural forces and future trends on values, standards, and goals; skills for decision making, time, personal energy, stress, and conflict management; and techniques for improving self-esteem and self-understanding, values clarification, and interpersonal relationships.  
Transfer: CSU; UC.

210  INTRODUCTION TO HUMAN SERVICES  
(Formerly FMST 12)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Integrates the physical, social, emotional and cognitive aspects of human development throughout the lifespan. Discusses the developmental tasks facing people at various points in the life cycle. Explores the way social interaction and cultural institutions shape the development of the individual. Meets Title XXII requirements: DS 1.  
Transfer: CSU; UC. (For UC, maximum credit of one course between FMST 212 and 215).

212  HUMAN DEVELOPMENT: LIFE SPAN  
(Formerly FMST 13)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Examines the influence of ethnic identity on psycho-social developmental processes of major U.S. ethnic groups. Examines psychological theories of ethnic identity development and how ethnicity impacts the development and
functioning of intra-psychological processes; interpersonal relationships; and mental health. Analyzes research methodology and current research on the developing person and multicultural psychology. Discusses the psychological contents of culture and its relationship to mental processes and behaviors.  
Transfer: CSU; UC.

214 FAMILY, RELATIONSHIPS AND INTIMACY (3.0)  
(Formerly FAMST 14)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Examines major theories and research illuminating the relationship between gender and women's development across the lifespan. Particular emphasis is given to the evaluation of how the socio-cultural construction of gender influences psychological processes and interpersonal relationships.  
Transfer: CSU; UC (For UC, maximum credit of one course between FMST 212 and 215).

216 PARENTING (3.0)  
(Formerly FAMST 16)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Provides an introduction to the rapidly changing field of gerontology—the study of aging. Aging and the end of life are explored from a multidisciplinary perspective that views aging as not only a biological, but also a psychological, emotional and social process. Includes the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

218 HUMAN SEXUALITY (3.0)  
(Formerly FAMST 18)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Examines major theories and research illuminating the relationship between gender and women's development across the lifespan. Particular emphasis is given to the evaluation of how the socio-cultural construction of gender influences psychological processes and interpersonal relationships.  
Transfer: CSU; UC (For UC, maximum credit of one course between FMST 212 and 215).

220 AGING IN THE 21ST CENTURY: SOCIAL GERONTOLOGY (3.0)  
(Formerly FAMST 20)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

270 INTRO TO ADDICTION STUDIES: ADDICTION AND THE COMMUNITY (3.0)  
(Formerly FAMST 70)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156.  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

271 GROUP PROCESS AND PRACTICE (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: FMST 270  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

272 DRUG PREVENTION AND EDUCATION (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: FMST 270  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

278 FAMILIES AND ADDICTION (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: FMST 270  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.

279 TREATMENT AND CASE MANAGEMENT (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: FMST 270  
Examines the effect on family members, ways of adapting living and working environments, and decisions that need to be made to prepare for death. Introduces local, state, and federal programs that can assist in meeting the needs of the aged and their families. Provides students with tools to better prepare for their parents’ and their own later years.  
Transfer: CSU.
FASHION DESIGN & MERCHANDISING (FDM)

215 DESIGN ANALYSIS AND COLOR THEORY (3.0)
(Formerly FDM 15)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Presents the design elements and principles as they apply to interior design, clothing, textiles, jewelry and accessories. Includes a wide variety of creative applications with special emphasis on color theory and use. Same as ID 274.
Transfer: CSU.

216 FASHION ILLUSTRATION (3.0)
(Formerly FDM 16)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: FDM 216.
Provides an in-depth study of the fashion design process involving research of current trends, fashion influences, target markets, customer focus, and trade publications. Presents the concept of designing “collections” utilizing artwork, tools and techniques suitable for inclusion in a fashion portfolio. Translate original designs onto a fashion croquis; both figure and flat format. Employ creative applications for line pages and presentation boards.
Transfer: CSU.

218 FASHION DESIGN I (3.0)
(Formerly FDM 18)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: FDM 216.
Provides an in-depth study of the fashion design process involving research of current trends, fashion influences, target markets, customer focus, and trade publications. Presents the concept of designing “collections” utilizing artwork, tools and techniques suitable for inclusion in a fashion portfolio. Translate original designs onto a fashion croquis; both figure and flat format. Employ creative applications for line pages and presentation boards.
Transfer: CSU.

220 FASHION ANALYSIS (3.0)
(Formerly FDM 20)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Studies the psychological and sociological significance of clothing styles. Applies elements and principles of design of apparel and figure types to project a desired image.
Transfer: CSU.

225 HISTORY OF FASHION (3.0)
(Formerly FDM 25)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Surveys the evolution of apparel and accessory styles from classic civilization through present day. Explores the relationship of recurring styles of the past to contemporary trends. Includes the impact of sociological, technological, economic, cultural and political factors on fashion.
Transfer: CSU.

226 20TH CENTURY TRENDS AND DESIGNS (3.0)
(Formerly FDM 26)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Surveys the evolution of apparel and accessory styles from the late 19th century through the present. Explores the relationship of recurring style trends between decades within the century as well as any from previous centuries. Includes sociological, technological, economic, cultural, and political factors affecting the design.
Transfer: CSU.

230 RETAIL BUYING (3.0)
(Formerly FDM 30)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156 and MATH 003.

Explores the intricate decision making process of forecasting trends, planning merchandise assortments, and buying for various types of retail environments. Also includes pricing principles, inventory control through a six-month merchandise plan and composing purchase orders. The importance of developing strategic partnerships with vendors and suppliers is explored.
Transfer: CSU.

235 FASHION PROMOTION (3.0)
(Formerly FDM 35)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Principles of fashion promotion and coordination. Study of the psychology of fashion, functions of the fashion coordinator and techniques and procedures for presenting fashion. Observation and participation in an area of the fashion industry. Studies the functions of fashion coordinators and directors in retail and wholesale fields.
Transfer: CSU.

240 VISUAL MERCHANDISING AND DISPLAY (3.0)
(Formerly FDM 40)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156 and FDM 215.
Presents a study of the visual approach to selling with emphasis on the how and why of display. Includes a brief history of display, contemporary visual merchandising, art principles, and sales theory. Experience in designing and constructing visual displays for merchandising strategies to increase sales and store image.
Transfer: CSU.

247 INDEPENDENT STUDIES: FASHION DESIGN AND MERCHANDISING (2.0 to 0.5)
(Formerly FDM 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of fashion design or fashion merchandising under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

260 APPAREL PRODUCT DEVELOPMENT (3.0)
(Formerly FDM 60)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: FDM 214.
Transfer: CSU.

263 APPAREL CONSTRUCTION I (3.0)
(Formerly FDM 63)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Apply the principles and methods of apparel construction with emphasis on fashion fabric selection, pattern design selection, and construction techniques for garment design and fit.
Repeatable 1 time.
Transfer: CSU.

265 PATTERN DEVELOPMENT (3.0)
(Formerly FDM 165)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Cuesta College

Associate Degree Applicable
Prerequisite: FR 202 or equivalent
Examines a special topic in the field of study related to the discipline offering this course.
Transfer: CSU; UC.

204 FRENCH
(Formerly FR 4)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: FR 203 or equivalent
Examines a special topic in the field of study related to the discipline offering this course.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: FRENCH
(Formerly FR 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for in-depth study by an individual student in a selected topic of French under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

263 FRENCH REVIEW
(Formerly FR 63)
3.0 hours per week: (2.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: FR 201 or equivalent
Examines a special topic in the field of study related to the discipline offering this course.
Transfer: CSU.

GEOGRAPHY [GEOG]

201 PHYSICAL GEOGRAPHY
(Formerly GEOG 1)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Studies human interaction with the basic elements of the physical environment. Includes climate, vegetation, soils, landforms, and their patterns of distribution.
Transfer: CSU; UC.

202 CULTURAL GEOGRAPHY
(Formerly GEOG 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Studies human interaction with the basic elements of the cultural environment. Includes language, religion, economy, and other cultural phenomena and their patterns of distribution.
Transfer: CSU; UC.

GEOLOGY [GEOL]

193 GEOLOGY SPECIAL TOPIC
(Formerly GEOL 93)
(4.0 to 0.5)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

193C GEOLOGIC FIELD TECHNIQUES
(1.0)
2.72 hours per week: (0.5 hours lecture, 2.22 hours laboratory)
Associate Degree Applicable
Examines the techniques of the geological mapping program and data acquisition.

210 PHYSICAL GEOLOGY
(Formerly GEOL 10)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MATH 123 or MATH 123SI
Advisory: ENGL 156 or ENGL 165.
Introduces the concepts and principles upon which geologic knowledge is based, including the composition, structure, and description of the earth's external and internal processes and features.
Transfer: CSU; UC.

211 HISTORICAL GEOLOGY
(Formerly GEOL 11)
6.0 hours per week: (3.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: GEOL 210 or equivalent and MATH 123 or MATH 123SI or equivalent
Advisory: Eligibility for ENGL 201A.
Explores the theory of the origin and evolution of the earth and its lifeforms, emphasizing the tectonic development of North America and its biological evolution through time.
Transfer: CSU; UC.

212 GEOLOGIC HAZARDS, MAN, AND THE ENVIRONMENT
(Formerly GEOL 12)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156 or ENGL 165.
Studies geologic hazards as they relate to human interaction with the environment. Emphasizes the cause of earthquakes, their recording, location, and measurement. Also covers flooding, landslides, subsidence, and volcanic hazards.
Transfer: CSU; UC.

220 GEOLOGY OF CALIFORNIA
(Formerly GEOL 20)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces the principles and processes of the physical and historical geology of California.
Transfer: CSU; UC.

225 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
(3.0)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduces the concepts, techniques, and tools of a Geographic Information System (GIS), including data acquisition, management, manipulation, spatial analysis, and cartographic output. Emphasizes the use of technology and software in order to provide students with skills and a conceptual framework on which they can build further expertise in GIS. Includes exercises using GIS as a tool for solving real-world problems across a wide spectrum of disciplines. Focuses on the development of spatial reasoning skills with applications in fields such as natural hazards, environmental assessment, and resource management.
Transfer: CSU; UC.

228A GEOLOGICAL SCIENCE FIELD STUDIES
(Formerly GEOL 29A)
49.0 hours per week: (9.0 hours lecture, 40.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in GEOL 210, GEOL 211 or GEOL 220
Examines an on-site field study of Yosemite, the Sierra Nevada, Mono Basin, Long Valley Caldera, and Owens Valley area.
Transfer: CSU; UC.
229B  GEOLOGICAL SCIENCE FIELD STUDIES  (1.0)
(Formerly GEOL 29B)
49.0 hours per week; (9.0 hours lecture, 40.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in GEOL 210, GEOL 211 or GEOL 220
Presents an on-site field study of the Transverse Ranges, central San Andreas fault, Mojave desert, and the Death Valley area.
Transfer: CSU; UC.

204  GERMAN  (4.0)
(Formerly GER 4)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: GER 203 or equivalent
A continuation of GER 203 with extensive practice in composition, conversation, and comprehension, with readings from classical and contemporary writers and with language laboratory practice.
Transfer: CSU; UC.

110  BEGINNING GERMAN CONVERSATION AND READING  (4.0)
(Formerly GER 10)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Emphasizes basic vocabulary and pronunciations skills needed to converse in German. Students will also develop listening comprehension, reading skills and knowledge and understanding of German-speaking cultures. Language laboratory practice required.

120  GERMAN CONVERSATION AND READING  (4.0)
(Formerly GER 20)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: GER 201, GER 110 or equivalent
Presents a continuation of GER 10 with intensive practice of oral communication skills. Students will also develop reading strategies to access authentic cultural information. Language laboratory practice is required.

193  GERMAN SPECIAL TOPIC  (4.0 to 0.5)
(Formerly GER 93)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

201  ELEMENTARY GERMAN  (4.0)
(Formerly GER 1)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Presents a topic-centered introduction to contemporary German language and culture. Students will achieve basic functional proficiency in oral and written communication skills and develop knowledge and understanding of German-speaking cultures based on social and historical contexts. Language laboratory practice is required.
Transfer: CSU; UC.

202  GERMAN  (4.0)
(Formerly GER 2)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: GER 201 or equivalent
Presents a continuation of GER 201 with topic-centered intensive practice of oral and written communication skills. Students will develop strategies to access authentic cultural information including prose, poetry and current events. Language laboratory practice is required.
Transfer: CSU; UC.

203  GERMAN  (4.0)
(Formerly GER 3)
5.0 hours per week; (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: GER 202 or equivalent
Reviews grammar, including discussion of grammatical features beyond the elementary level including intensive oral and written drills in idiomatic construction, composition, conversation, cultural readings and language laboratory practice.
Transfer: CSU; UC.

204  STANDARD FIRST AID AND CPR (CARDIOPULMONARY RESUSCITATION)  (2.0)
(Formerly HEED 4)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156
Presents information and training in the immediate and temporary emergency care in case of accident or illness. Prepares the student for first-aid and C.P.R. certificate examinations.
Transfer: CSU; UC.
206 HEALTH ASPECTS OF DRUG USE
(Formerly HEED 6)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
This course is an elective course towards a high school diploma. This course presents the major health problems related to the use of addictive and non-addictive drugs, including the physiological and psychological effects of drug use on the individual and society. It also explores the role of society in the development of drug use habits, and provides students with tools to make informed decisions about drug use. 
Transfer: CSU; UC.

208 MULTICULTURAL HEALTH
(Formerly ART 403)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
This course is an elective course towards a high school diploma. The course introduces students to the art of drawing, including the study of gesture, contour, and modeling. Students will have the opportunity to explore various techniques for creating works of art in a variety of media. 
Transfer: CSU; UC (For UC, maximum credit of one course between HEED 202, 203, and 208).

210 COMMUNITY HEALTH
(Formerly ART 405)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 156.  
This course is an elective course towards a high school diploma. The course introduces students to the study of health and disease, including the study of disease prevention, detection, and treatment. Students will gain knowledge and an appreciation for the role of health care professionals in promoting and maintaining health and preventing disease. 
Transfer: CSU; UC.

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and cultural contexts. Consideration of multiple accounts of events in order to understand international relations from a variety of perspectives. This is an elective course towards a high school diploma.

**408  HSD NON-CREDIT BASIC SKILLS U.S. HISTORY (0.0)**
(Formerly HIST 402)
8.0 hours per week: (6.0 hours lecture, 2.0 hours laboratory)
Introduces the major turning points in American history in the twentieth century. Following a review of the nation’s beginnings and the impact of the Enlightenment on US democratic ideals, students build upon the tenth grade study of global industrialization to understand the emergence and impact of new technology and a corporate economy, including the social and cultural effects. Tracing change in the ethnic composition of American society; the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. Emphasis on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. Consider the major social problems of our time and trace their causes in historical events. Emphasis that the United States has served as a model for other nations and that the rights and freedoms we enjoy are not accidents, but the results of defined set of political principles that are not always basic to citizens of other countries. Develop the understanding that our rights under the U.S. Constitution are a precious inheritance that depends on an educated citizenry for their preservation and protection. This is an elective course towards a high school diploma.

**409  HSD NON-CREDIT BASIC SKILLS ALGEBRA I (0.0)**
(Formerly MATH 401)
8.0 hours per week: (6.0 hours lecture, 2.0 hours laboratory)
Designed to cover symbolic reasoning and calculations with symbols allowing a student to develop an understanding of the symbolic language of mathematics and the sciences. Range of problem solving situations allow for the development of algebraic skills and concepts. This is an elective course towards a high school diploma.

**410  HSD NON-CREDIT BASIC SKILLS ALGEBRA II (0.0)**
(Formerly MATH 402)
8.0 hours per week: (6.0 hours lecture, 2.0 hours laboratory)
Introduces Algebra II topics including linear equations and inequalities, systems of equations and polynomial, exponential and logarithmic functions. Geometric topics covered are triangular and circular trigonometry. Other topics covered are probability, conic sections and trigonometric functions and their graphs. This is an elective course towards a high school diploma.

**411  HSD NON-CREDIT BASIC SKILLS GEOMETRY (0.0)**
(Formerly MATH 403)
8.0 hours per week: (6.0 hours lecture, 2.0 hours laboratory)
Focusing on fundamental knowledge of basic geometric postulates and theorems and their use in proofs. Integrating Algebra in a geometric setting. Using formulas to calculate perimeter, area, and volume of a variety of geometric shapes. This is an elective course towards a high school diploma.

**412  HSD NON-CREDIT BASIC SKILLS POLITICAL SCIENCE (0.0)**
(Formerly POLS 401)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Presents the organization and mechanics of our federal, state, and local systems of government. Explores the basic ideals of American democracy as well as contemporary issues relevant to American government. This is an elective course towards a high school diploma.

**413  HSD NON-CREDIT BASIC SKILLS PSYCHOLOGY (0.0)**
(Formerly PSYC 401)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Introduce students to the vast diverse field of psychology. Engage students in reflection about who they are, what motivates them, what people think, and a myriad of other questions about themselves and other people and begin to explore the science of human behavior through guest speakers, lectures, and readings. Including, the exploration of the conscious and unconscious mind, the developmental processes throughout the lifespan, personality development, psychological disorders and therapeutic methods. This is an elective course towards a high school diploma.

**414  HSD NON-CREDIT BASIC SKILLS SPANISH I (0.0)**
(Formerly SPAN 401)
20.0 hours lecture per week
This is an elective course towards a high school diploma. Per California Foreign Language Standards (1995), Spanish 1 focuses on teaching students how to read, write, speak and understand standard Spanish at a basic level. Students will acquire basic vocabulary and grammar structures, including the simple present tense, noun-adjective agreement, subject-verb agreement, interrogatives, the immediate future tense, and the preterit tense. Students are exposed to and expected to work with the cultures of the Spanish-speaking countries of the world. Students will use Spanish selectively both within and beyond the school setting. This class requires students to participate in cultural projects, including comparing and contrasting other cultures to their own.

**415  HSD NON-CREDIT BASIC SKILLS SPANISH II (0.0)**
(Formerly SPAN 402)
20.0 hours lecture per week
This is an elective course towards a high school diploma. Per California Foreign Language Standards (1995), Spanish 2 focuses on teaching students how to read, write, speak and understand standard Spanish at a basic level. Students will acquire additional basic vocabulary and grammar structures, including the regular and irregular preterit tense, imperfect tense, commands, interrogatives, the future tense, comparisons, and direct and indirect object pronouns. Students are exposed to and expected to work with the cultures of the Spanish-speaking countries of the world. Students will use Spanish selectively both within and beyond the school setting. This class requires students to participate in cultural projects, including comparing and contrasting other cultures to their own.

**416  HSD NON-CREDIT BASIC SKILLS SPANISH III (0.0)**
(Formerly SPAN 403)
20.0 hours lecture per week
This is an elective course towards a high school diploma. Per California Foreign Language Standards (1995), Spanish 3 focuses on teaching students how to read, write, speak and understand standard Spanish at an intermediate level. As well as revisiting the grammar structures and topics focused on during Spanish 2, students will delve deeper into the relationship between the preterit and the imperfect, the use of direct and indirect object pronouns and reflexive pronouns, will learn the present subjunctive, conditional, and present perfect tenses, and be introduced to the Spanish passive voice and the imperfect subjunctive. They will reach further into their cultural knowledge in order to be able to express and defend opinions and will further refine and develop their language skills. Students will use Spanish selectively both within and beyond the school setting. This class requires students to participate in cultural projects which stress the integration of textbook learning with real world language applications.

**HISTORY [HIST]**

**203A  HISTORY OF WORLD CIVILIZATIONS (3.0)**
(Formerly HIST 3A)
3.0 hours lecture per week
Associate Degree Applicable
Surveys the major world civilizations from antiquity to the early sixteenth century. Explores the people, ideas, and events that have shaped the ancient world, including the social, economic, and political institutions that have made significant contributions to the human experience.
Transfer: CSU; UC.

**203B  HISTORY OF WORLD CIVILIZATIONS (3.0)**
(Formerly HIST 3B)
3.0 hours lecture per week
Associate Degree Applicable
Surveys the major world civilizations from the early sixteenth century to the present. Explores the people, ideas, and events that have shaped the modern world, including the social economic, and political institutions that have made significant contributions to the human experience.
Transfer: CSU; UC.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Lecture Hours Per Week</th>
<th>Degree Applicable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>204A</td>
<td>HISTORY OF WESTERN CIVILIZATION</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the history of Western Civilization from Mesopotamia (ca. 3000 B.C.) to the Elizabethan Age (1603 A.D.). Emphasizes historical methodology, physical environment, religious beliefs, and social, political and economic factors. Explores the diverse antecedents of Western Civilization. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>204B</td>
<td>HISTORY OF WESTERN CIVILIZATION</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the history of Western Civilization from the Stuart dynasty in England (1603) to the present. Emphasizes historical methodology as well as the physical environment, religious beliefs, and social, political, and economic factors. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>207A</td>
<td>HISTORY OF THE UNITED STATES</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Presents a survey of the political, economic, social and cultural developments of the United States to 1865 with emphasis on development which have conditioned and characterized the American way of life. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>207B</td>
<td>HISTORY OF THE UNITED STATES</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the political, social and cultural development of the United States from 1865 to the present. Emphasizes those developments which have conditioned and characterized the American way of life. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>208A</td>
<td>HISTORY OF LATIN AMERICA</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Examines the colonial history of Latin America from discovery to independence in 1821. Emphasizes the impact of European and non-European contributions to a distinctive Latin American culture. Includes a review pre-1492 European, African, and New World cultures. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>208B</td>
<td>HISTORY OF LATIN AMERICA</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Examines the rise of Latin American social, economic and political institutions from the Age of Independence to the present. Emphasizes the trends and themes which compose a collective Latin American historical identity. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>210</td>
<td>HISTORY OF CALIFORNIA</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Introduces the concepts and issues that have shaped the history of California. Emphasizes the physical environment, the indigenous Indian culture, the Hispanic culture, and the American culture. Analyzes political, social, and economic factors. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>212</td>
<td>HISTORY OF THE MEXICAN-AMERICAN</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the major social and cultural events of people of Mexican descent north of Mexico. Presents their history in relation to the broad background of Hispanic-Mexican history. Emphasizes the history of the Southwest United States since 1848. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>219</td>
<td>HISTORY OF THE FAR EAST</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the social, political, and economic history of China, Japan, and other Asian countries. Emphasizes themes and concepts resulting in the current problems of the Far East and how they relate to the United States. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>233</td>
<td>HISTORY OF THE AFRO-AMERICAN</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the political, economic and social history of the Afro-Americans from the early 17th century to the present with emphasis on the contributions of Afro-Americans to American culture. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>235</td>
<td>HISTORY OF AFRICAN CIVILIZATION</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the history of Africa from antiquity to the present. Emphasizes the ancient African kingdoms, societies, and cultures before Arabic and European invasions. Studies the impact of European colonization leading to contemporary African demands for self-determination and nation-building. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>237</td>
<td>HISTORY OF AMERICAN WOMEN</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys woman's place historically and sociologically in specific cultures throughout the ages. Assesses how womankind is perceived in her role, status, limitations, and opportunities in various historic and periods and analyzes the dynamics of change in role from one person to another. Transfer: CSU; UC.</td>
</tr>
<tr>
<td>239</td>
<td>HISTORY OF THE ROLE OF WOMEN</td>
<td>3.0</td>
<td>3.0</td>
<td>Associate Degree Applicable</td>
<td>Surveys the role and contributions of women in various societies and cultures. Transfer: CSU; UC.</td>
</tr>
</tbody>
</table>
### Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>247</td>
<td>Independent Studies: History (Formerly HIST 47)</td>
<td>2.0 to 0.5</td>
<td>6.0 hours laboratory per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>260</td>
<td>History of the San Simeon Region</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>147</td>
<td>Independent Studies: Hospitality (Formerly HOSP 47)</td>
<td>2.0 to 0.5</td>
<td>6.0 hours laboratory per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>201</td>
<td>Introduction to Hospitality</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>205</td>
<td>Managing Front Office Operations (Formerly HOSP 105)</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>210</td>
<td>Hospitality Marketing and Sales (Formerly HOSP 110)</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>215</td>
<td>Housekeeping Operations</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>220</td>
<td>Supervision in the Hospitality Industry (Formerly HOSP 120)</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>225</td>
<td>Hospitality Law</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>230</td>
<td>Food and Beverage Operations</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>235</td>
<td>Security and Loss Prevention (Formerly HOSP 135)</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>240</td>
<td>Hospitality Training and Development (Formerly HOSP 140)</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
<tr>
<td>245</td>
<td>Hospitality Internship</td>
<td>3.0</td>
<td>8.0 hours per week: (0.5 hours lecture, 7.5 hours laboratory)</td>
<td>Associate Degree Applicable</td>
<td>CSU</td>
</tr>
</tbody>
</table>

### Notes
- **Transfer:** CSU.
- All courses are associated with the Hospitality (HOSP) department.
- **Associate Degree Applicable:** Indicates the course is applicable toward an associate degree.
- **Advisory:** Eligibility for ENGL 156.
- **Repeatable:** Indicates the course can be repeated up to 3 times.
### HUMANITIES [HUMN]

#### 160  INTERPRETIVE GUIDE TRAINING HEARST CASTLE TOUR I
(Formerly HUMAN 60)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)

**Associate Degree Applicable**

**Advisory:** SPCM 201A, HIST 207B, HIST 210, ART 203, ART 204.

Presents basic concepts and techniques of historical interpretation as employed at Hearst San Simeon State Historical Monument. Students will be trained as historical guides employing Hearst San Simeon Monument as the resource to be interpreted. Students will be introduced to the collection, the architecture, and the people who comprise the interpretive environment of the Hearst Monument. Students will spend time in both a traditional classroom and on site at the Hearst Monument. The course will require students to demonstrate their competence in both written and oral forms in the subject areas including but not limited to Art History, Architecture, Social History of the 1920’s and 30’s, and the mission and purposes of California State Parks as these topics apply to Hearst San Simeon State Monument; specifically Tour I. Repeatable 1 time.

#### 161  INTERPRETIVE GUIDE TRAINING HEARST CASTLE TOURS II AND III
(Formerly HUMAN 60)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)

**Associate Degree Applicable**

**Advisory:** HUMAN 160 OR HUMAN 560

Presents basic concepts and techniques of historical interpretation as employed at Hearst San Simeon State Historical Monument. Students will be trained as historical guides employing Hearst San Simeon Monument as the resource to be interpreted. Students will be introduced to the collection, the architecture, and the people who comprise the interpretive environment of the Hearst Monument. Students will spend time in both a traditional classroom and on site at the Hearst Monument. The course will require students to demonstrate their competence in both written and oral forms in the subject areas including but not limited to Art History, Architecture, Social History of the 1920’s and 30’s, and the mission and purposes of California State Parks as these topics apply to Hearst San Simeon State Monument; specifically Tours II and III. Repeatable 1 time.

#### 218  HISTORY OF VISUAL AND PERFORMING ARTS
(Formerly HUMAN 118)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)

**Associate Degree Applicable**

**Advisory:** Eligibility for ENGL 156 is recommended.

Introduces the history of visual and performing arts. The main objective of this course is to increase understanding of painting, sculpture, theatre, and music and their roles in society. The students will explore different styles and types of works of cultural production from various cultures, eras, and locations. Students will demonstrate an understanding of the basic elements of these art forms and apply this knowledge to analyze and evaluate works of art. Particular emphasis will be placed on discussions and interpretations of the value of the arts to the individual and society.

Transfer: CSU.

#### 560  INTERPRETIVE GUIDE TRAINING HEARST CASTLE TOUR I
(Formerly HUMAN 560)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)

**Advisory:** SPCM 201A, HIST 207B, HIST 210, ART 203, ART 204.

Presents basic concepts and techniques of historical interpretation as employed at Hearst San Simeon State Historical Monument. Students will be trained as historical guides employing Hearst San Simeon Monument as the resource to be interpreted. Students will be introduced to the collection, the architecture, and the people who comprise the interpretive environment of the Hearst Monument. Students will spend time in both a traditional classroom and on site at the Hearst Monument. The course will require students to demonstrate their competence in both written and oral forms in the subject areas including but not limited to Art History, Architecture, Social History of the 1920’s and 30’s, and the mission and purposes of California State Parks as these topics apply to Hearst San Simeon State Monument; specifically Tour I. Repeatable 1 time.

#### 561  INTERPRETIVE GUIDE TRAINING HEARST CASTLE TOURS II AND III
(Formerly HUMAN 561)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)

**Prerequisite:** HUMAN 160 OR HUMAN 560

Presents basic concepts and techniques of historical interpretation as employed at Hearst San Simeon State Historical Monument. Students will be trained as historical guides employing Hearst San Simeon Monument as the resource to be interpreted. Students will be introduced to the collection, the architecture, and the people who comprise the interpretive environment of the Hearst Monument. Students will spend time in both a traditional classroom and on site at the Hearst Monument. The course will require students to demonstrate their competence in both written and oral forms in the subject areas including but not limited to Art History, Architecture, Social History of the 1920’s and 30’s, and the mission and purposes of California State Parks as these topics apply to Hearst San Simeon State Monument; specifically Tours II and III. Repeatable 1 time.

### INTERIOR DESIGN [ID]

#### 193  INTERIOR DESIGN SPECIAL TOPIC
(Formerly INTDES 93)
4.0 to 0.5 hours per week

**Associate Degree Applicable**

Examines a special topic in the field of study related to the discipline offering this course.

#### 247  INDEPENDENT STUDIES: INTERIOR DESIGN
(Formerly INTDES 47)
6.0 hours laboratory per week

**Associate Degree Applicable**

**Prerequisite:**

Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of interior design under the direction of an instructor.

Repeatable 3 times.

Transfer: CSU.

#### 270  INTRODUCTION TO INTERIOR DESIGN
(Formerly ID 210)
3.0 hours lecture per week

**Associate Degree Applicable**

**Advisory:** ENGL 156.

Recognize the skills and explain the profession of Interior Design including career options. Introduce industry standards pertaining to design principles, social responsibility, and presentation techniques.

Transfer: CSU.

#### 272  ARCHITECTURAL DRAFTING AND STRUCTURE FOR INTERIOR DESIGN
(Formerly ID 219)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)

**Associate Degree Applicable**

Presents the tools and techniques required for architectural drafting standards and lettering, while introducing the understanding of foundations, structure, and non-structural systems.

Transfer: CSU.

#### 274  INTERIOR DESIGN STUDIO 1
(Formerly ID 215)
4.0 hours lecture per week

**Associate Degree Applicable**

**Prerequisite:** ID 272
Advisory: ENGL 156.
Demonstrate the elements and principles of design, concepts, and skills pertaining to two and three dimensional design including freehand and constructed representation of visual communication of ideas, objects and environments. Develop applications of color and concepts pertaining to color theory.
Transfer: CSU.

276 PRINCIPLES OF GREEN DESIGN (3.0)
(Formerly ID 220)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ID 270, ID 272.
Examine the history, philosophical, and practical principles of Green Design. Environmental issues, sustainable materials and methods, and application in professional practice are explored. The course provides a foundation for evaluation of materials, processes, and applications of design components related to the principles of sustainability and environmentally responsible design.
Transfer: CSU.

278 INTERIOR DESIGN STUDIO 2 (4.0)
(Formerly ID 222)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ID 274
Demonstrate foundational and evidence-based design skills for individual spaces within the commercial and residential built environment to include universal theory, sustainability standards, and building codes. An emphasis is placed on lighting theory, application of luminaries, and lighting design.
Transfer: CSU.

280 MATERIALS AND METHODS OF INTERIOR DESIGN (3.0)
(Formerly ID 212)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Explain and examine textiles, materials, finishes, furniture, and equipment pertaining to residential and commercial interior design including performance, liability, construction, installation, and maintenance. Identify and examine textiles in regard to fiber, construction, finishes, testing, and codes used for Interior Design. Formulate the application and selection of appropriate fabrics applied to various forms and structures based on their properties, performance criteria, and environmental attributes.
Transfer: CSU.

282 HISTORY OF INTERIOR DESIGN (4.0)
(Formerly ID 240)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ID 274
Advisory: ENGL 156.
Examine the History of Interior Design in regard to furnishings, interiors and architecture from Ancient Mesopotamian to the present. Evaluate the influence of each period and research skills for developing historical designs for today’s clients and projects.
Transfer: CSU.

284 INTERIOR DESIGN 3 (4.0)
(Formerly ID 229)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ID 278
Advisory: ID 272.
Develop and analyze the principles relating to residential design. Demonstrate the design process; establish goals, collect and analyze facts, test concepts, determine needs, and state the problem. Examine all elements of environmental design, human factors, universal design, building controls, and codes pertaining to the residential environment. Assemble concept statements, drawings, studies of theories, and specifications in presentation form to be used as part of the students portfolio.
Transfer: CSU.

COURSES

286 CAD FOR INTERIOR DESIGN (3.0)
(Formerly ID 234)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: CIS 210
Advisory: ID 272.
Demonstrate computer aided drafting, modeling, and rendering using industry standard software. Create 2 dimensional and 3 dimensional for construction documentation as well as conceptual presentation graphics. Develop and design a presentation for a design project that will become part of a portfolio.
Transfer: CSU.

288 PROFESSIONAL PRACTICE (3.0)
(Formerly ID 235)
3.0 hours lecture per week
Associate Degree Applicable
Illustrate the business practices found in the field of residential and commercial interior design from types of firms, contracts, and ordering, to business etiquette.
Transfer: CSU.

290 INTERIOR DESIGN STUDIO 4 (4.0)
(Formerly ID 231)
4.0 hours lecture per week
Associate Degree Applicable
Prerequisite: ID 284
Examine applications of the principles of sustainable and healthy interiors to the commercial environment. Emphasis is placed on the design process; space planning and analysis; and the identification and solution of design problems. Also included will be the study of traffic flow patterns, human factors, lighting, indoor air quality, and codes and regulations, with the emphasis on the U.S. Green Building Council’s leadership in Energy and Environmental Design (LEED) program.
Transfer: CSU.

JOURNALISM [JOUR]

193 JOURNALISM SPECIAL TOPIC (4.0 to 0.5)
(Formerly JOUR 93)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Examines a special topic in the field of study related to the discipline offering this course.

201A NEWS WRITING AND REPORTING (3.0)
(Formerly JOUR 1A)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces techniques of news reporting and writing. Provides intensive practice in gathering and evaluating information and writing basic news stories. Considers ethical and legal aspects of publications. Concentrates on the lead and simple story types, organization and structure of news stories, and the language and style of journalism.
Transfer: CSU.

201B INTRODUCTION TO MASS COMMUNICATION (3.0)
(Formerly JOUR 1B)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces the field of journalism, media, and opportunities, including an introduction to journalism literature, news analysis, comparison of journalistic styles, and an introduction to the writing and structure of news stories.
Transfer: CSU; UC.

201C JOURNALISM FIELD STUDIES (1.0 to 0.5)
(Formerly JOUR 1C)
18.0 hours lecture per week
Associate Degree Applicable
202A INTRODUCTION TO NEWS PRODUCTION (4.0)  
(Formerly JOUR 2A)  
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)  
Associate Degree Applicable  
Advisory: ENGL 156.  
Introduces hands-on preparatory news production using state-of-the-art technology to produce "The Cuestonian," the student newspaper. Presents all aspects of the newspaper business including reporting, writing, photography, word processing, typesetting, editing, graphic design, composition, layout, desktop publishing, and distribution.  
Transfer: CSU.

202B NEWS PRODUCTION (4.0)  
(Formerly JOUR 2B)  
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)  
Associate Degree Applicable  
Advisory: JOUR 202A.  
Involves students in editorial positions using state-of-the-art computer technology to produce "The Cuestonian," the student newspaper. Continues the study of all aspects of the newspaper business.  
Transfer: CSU.

202C NEWS PRODUCTION (4.0)  
(Formerly JOUR 2C)  
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)  
Associate Degree Applicable  
Advisory: JOUR 202B.  
Involves students in major hands-on editorial positions and leadership in using state-of-the-art computer technology to produce The Cuestonian, the student newspaper. Continues the study of all aspects of the newspaper business.  
Repeatable 1 time.  
Transfer: CSU.

203 FEATURE WRITING (3.0)  
(Formerly JOUR 3)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Introduces feature writing techniques. Presents critical analysis of markets for nonfiction articles and practice in research and preparation of articles for both magazines and newspapers.  
Transfer: CSU.

247 INDEPENDENT STUDIES: JOURNALISM (2.0 to 0.5)  
(Formerly JOUR 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Completion of or concurrent enrollment in ENGL 156 or ENGL 165.  
Provides students the opportunity to explore life goals. Training helps guide students to complete learning objectives. Internship experience provides a structured, on-the-job opportunity in a human services setting, elementary school, and/or college. Students also participate in a training program at their on-site placement.  
Repeatable 3 times.  
Transfer: CSU.

250 PEER EDUCATOR - ORIENTATION LEADER (2.0)  
(Formerly LEADER 50)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: LEADER 53.  
This course is designed for students who are interested in or who have been invited to be an orientation leader. Students will become knowledgeable in campus policies, procedures, and services. Leadership theory, diversity awareness and appreciation are also explored, as well as the psychological and personal issues facing college students. Students will have the opportunity to lead group discussions, make presentations, and be trained to be SLO Days counselors, as well as peer educators on campus.  
Repeatable 3 times.  
Transfer: CSU.

253 PEER COUNSELING (2.0)  
(Formerly LEADER 53)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Advisory: LEADER 253.  
Provides students the opportunity to explore life goals. Training helps guide students to complete learning objectives. Internship experience provides a structured, on-the-job opportunity in a human services setting, elementary school, and/or college. Students also participate in a training program at their on-site placement.  
Repeatable 3 times.  
Transfer: CSU.

255 COMMUNITY INTERNSHIP (3.0 to 1.0)  
(Formerly LEADER 55)  
8.0 hours per week: (0.5 hours lecture, 7.5 hours laboratory)  
Associate Degree Applicable  
Advisory: LEADER 253.  
Provides students the opportunity to explore life goals. Training helps guide students to complete learning objectives. Internship experience provides a structured, on-the-job opportunity in a human services setting, elementary school, and/or college. Students also participate in a training program at their on-site placement.  
Repeatable 3 times.  
Transfer: CSU.

256 CAMPUS PEER EDUCATOR (1.0)  
(Formerly LEADER 56)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: Completion of or concurrent enrollment in LEADER 253.  
This course is designed for students who are interested in or who have been invited to be a campus peer educator. Peer education is a leadership program which takes the knowledge gained from LEADER 253 and applies it in a way to promote healthy behaviors and wellness among all members of the Cuesta College community.  
Transfer: CSU.

257 CAMPUS PEER INTERNSHIP (2.0)  
(Formerly LEADER 57)  
5.0 hours per week: (0.5 hours lecture, 4.5 hours laboratory)  
Associate Degree Applicable  
Prerequisite: Completion of or concurrent enrollment in LEADER 256.  

LEADERSHIP [LDER]

193 LEADERSHIP SPECIAL TOPIC (4.0 to 0.5)  
(Formerly LEADER 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.
Advisory: LDER 253.
This course provides structured, on-the-job experience on campus with the opportunity to serve as a peer counselor in a student services setting. The required seminar is scheduled during the 1st, 4th, 8th, 12th, and last week of the semester.
Repeatable 3 times.
Transfer: CSU.

260 COMMUNITY PARTNERSHIP THROUGH APPLIED VOLUNTARISM (2.0)
(Formerly LEADER 60)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Completion of or concurrent enrollment in SOC 201A or FMST 210.
Integrates public service experience through community volunteer work with instruction on voluntarism. Presents historical perspective of volunteer work for improving human conditions. Develops interpersonal skills, awareness of civic responsibility, and sensitivity to economic conditions.
Transfer: CSU.

261A PHILOSOPHY OF LEADERSHIP (1.5)
(Formerly LEADER 61A)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in ENGL 156 or ENGL 165
Studies group and individual leadership techniques. Identifies, classifies, and analyzes the components essential to the development of leadership. Includes definitions, traits and behaviors of leadership, personal considerations in leadership, listening skills, personal values, and problem solving. Recommended for all first-time elected or appointed officers in the Student Senate; and recommended for officers of other organizations with a voting position on the Student Senate.
Transfer: CSU.

261B LEADERSHIP: SUCCESS STRATEGIES SEMINAR (1.5)
(Formerly LEADER 61B)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in ENGL 156 or ENGL 165
This course is designed to help students create greater success in college and in life. In so doing, discover those inner qualities necessary to become an effective leader. Such qualities touched on include personal responsibility; motivating purpose; taking effective action; building mutually supportive relationships; gaining heightened self awareness; developing emotional maturity; and believing in yourself.
Transfer: CSU.

262 STUDENT LEADERSHIP (3.0 to 1.0)
(Formerly LEADER 62)
9.0 hours laboratory per week
Associate Degree Applicable
Advisory: Completion of or concurrent enrollment in LDER 261A or LDER 261B for first-time elected or appointed officers in the Student Senate.
Provides membership experience in the Student Senate with additional leadership experiences in the planning and implementation of student activities and services. Allows students to initiate on-campus and off-campus community projects and programs.
Repeatable 3 times.
Transfer: CSU.

263 EXPLORING LEADERSHIP-MAKING A DIFFERENCE (3.0)
(Formerly LEADER 63)
3.0 hours lecture per week
Associate Degree Applicable
Evaluates how purpose in life influences goals and leadership in a rapidly changing world. Analyzes responsibilities and commitments in the context of leadership for the common good and for purposeful change. Examines leadership potential. Explores how leaders and participants mutually shape the environment of an organization and/or community.
Transfer: CSU.

LEGAL [LGL]

193 LEGAL SPECIAL TOPIC (4.0 to 0.5)
(Formerly LEGAL 93)
Associate Degree Applicable
Examine a special topic in the field of study related to the discipline offering this course.

206 BUSINESS ORGANIZATIONS (3.0)
(Formerly PLGL 106)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156
Introduces the student to the substantive law and procedural aspects of business organizations, including sole proprietorships, partnerships, limited liability companies, and corporations. Includes a study of the relative advantages and disadvantages of the different business organizations as related to formation, management, liability, dissolution, regulation, and taxation. Also includes an overview of such related areas as agency law, employment law, and business ethics.
Transfer: CSU.

207 FAMILY LAW (3.0)
(Formerly PLGL 107)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or equiv.
Introduces the fundamental principles of California Family Law along with the terminology, procedures, and legal document and form preparation involved in family law matters. Topics include an overview of California law regarding marriage versus domestic partnerships, principles of community property law, marital and cohabitation agreements, legal separations, marital and domestic partnership dissolutions, annulments, spousal and domestic partner support, child custody and support, patriarchy, adoption, and domestic violence.
Transfer: CSU.

208 ESTATE PLANNING AND ADMINISTRATION (3.0)
(Formerly PLGL 108)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 or equiv.
Introduces the fundamental principles of estate planning and administration. Also introduces the terminology, procedures, and legal document and form preparation involved in estate planning and administration matters.
Transfer: CSU.

217 INTRODUCTION TO LAW (3.0)
(Formerly LEGAL 17)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156
Introduces the student to the study of law and the interrelationship between law and society as a whole. Addresses the fundamental but seemingly contradictory functions the law serves as an instrument of both social control and social change. Also examines the critical role the law plays in conflict resolution, especially with regard to conflicts between majority and minority interests in society. Explores the evolution and social impact of different legal systems, competing sources of the law, and conflicting theories of the law. Integrates an examination of selected procedural and substantive areas of the law with a critical analysis of these areas as sources of social control, social change, and conflict mediation among various social groups.
Transfer: CSU; UC.

220 LEGAL RESEARCH AND WRITING (3.0)
(Formerly LEGAL 20)
3.0 hours lecture per week
105 LIBRARY/INFORMATION CENTER COLLECTIONS (3.0)
(Formerly LIBINF 5)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in LIBT 101
Provides an overview of how to select, purchase, and organize print, electronic, and other materials to stock library/information center collections.

106 INTRODUCTION TO THE INTERNET (1.0)
(Formerly LIBINF 6)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Designed to prepare students to use the Internet for personal and academic needs. This course is an introduction to various features and components of the Internet. Emphasis is also placed on the location and evaluation of Internet resources.

108 LIBRARY SUPERVISORY SKILLS (1.0)
(Formerly LIBINF 8)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in LIBT 101
Introduces supervisory skills within the context of a library department or branch. Covers how to train, motivate, counsel and evaluate employees, time management, delegation of work, preparation of memos and statistical reports.

109 LIBRARY PUBLIC SERVICES (3.0)
(Formerly LIBINF 9)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in LIBT 101
Surveys all major library services provided to the public. Focuses on the philosophy, policies and procedures associated with reference/information and circulation services. Major emphasis is placed on skill building in defining and executing search strategies that answer information questions from the public.

110 SCHOOL LIBRARY/MEDIA CENTER SERVICES (2.0)
(Formerly LIBINF 10)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in LIBT 101
Explores the role of the school library media program in the educational community. Introduces students to the basic skills and competencies necessary to provide effective school library media programs for grades K-12.

111 JAVASCRIPT FUNDAMENTALS (1.0)
(Formerly LIBINF 11)
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: LIBT 207 with a grade of C or better or consent of instructor
Introduces the fundamentals of JavaScript and web page design techniques. Repeatable 1 time.

113 ADVANCED INTERNET SEARCHING (1.0)
(Formerly LIBINF 13)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of LIBT 106 with a grade of C or better.
Moves beyond general Web searching and focuses on advanced search and strategies for searching library catalogs, research databases and Web resources. Students will learn how to select appropriate databases, formulate search queries, and retrieve information from these resources. Repeatable 2 times.

114 INFORMATION TECHNOLOGY INTERNSHIP (2.0)
(Formerly LIBINF 14)
5.0 hours per week: (0.5 hours lecture, 4.5 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of with a grade of C or better or concurrent enrollment in
115 TECHNOLOGY IN THE WORKPLACE (2.0)
(Formerly LIBINF 15)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
This course offers a practical look at proper approaches and techniques used to understand, utilize and troubleshoot workplace technology—particularly computer and multimedia technology.

116 MULTIMEDIA APPLICATIONS FOR THE WEB (2.0)
(Formerly LIBINF 16)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: LIBT 207.
Focus is on the various ways of creating, editing, and presenting multimedia content for use on the web.

117 ETHICS IN THE INFORMATION AGE (1.0)
(Formerly LIBINF 17)
1.0 hours lecture per week
Associate Degree Applicable
Focuses on ethical and legal issues of information access and publishing as applicable to the Internet. Include a basic knowledge of copyright laws, security and privacy issues, Internet advertising, and the appropriate use of the Internet as an information delivery system.

118 CONNECTING ADOLESCENTS WITH LITERATURE AND LIBRARIES (3.0)
(Formerly LIBINF 18)
3.0 hours lecture per week
Associate Degree Applicable
Explores the literature and electronic resources essential for library technicians to work effectively with adolescents in the information age. Issues of materials selection, evaluation and youth programming will be related to teenage trends, popular culture, multiculturalism and other contemporary subjects of importance to adolescents.

119 CONNECTING ADULT READERS WITH BOOKS (1.0)
(Formerly LIBINF 19)
2.0 hours lecture per week
Associate Degree Applicable
Explores adult reading interests beginning with the history of reading and progressing through genres, mass media, book discussion groups and the tools and methods for readers’ advisory. This course is designed for anyone with an interest in reading.
Repeatable 1 time.

120 FUNDAMENTALS OF CASCADING STYLE SHEETS (1.0)
(Formerly LIBINF 20)
1.0 hours lecture per week
Associate Degree Applicable
Prerequisite: LIBT 207 or CAOA 269
Introduces the fundamentals of CSS for the Web Page Developer. The essential elements such as selectors, positioning, floating, and vertical alignment, tables, and other topics will be explored.

147 INDEPENDENT STUDIES: LIBRARY/INFORMATION TECHNOLOGY (2.0 to 0.5)
(Formerly LIBINF 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: LIBT 101 and other preparatory course work in the field in which the study is to be undertaken.

Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Library/Information Technology (more specialized than is covered in the curriculum) under the direction of an instructor. Repeatable 3 times.

193 LIBRARY INFORMATION SPECIAL TOPIC (4.0 to 0.5)
(Formerly LIBINF 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

207 WEB PAGE DEVELOPMENT WITH XHTML (3.0)
(Formerly LIBINF 7)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: LIBT 106.
Designed to prepare students to understand XHTML and the steps necessary to the effective design and development of a web site. All elements of web page design will be covered including such topics as content, navigation and aesthetics. The student will have the opportunity to demonstrate mastery of the subject by working on a collaborative web site project. This class is for the student who is new to web page development.
Repeatable 1 time.
Transfer: CSU.

212 RESEARCH SKILLS FOR INFORMATION AGE (1.0)
(Formerly LIBINF 12)
1.0 hours lecture per week
Associate Degree Applicable
An information literacy course for students wishing to improve their research skills. This course will prepare students to effectively address different information questions, problems or issues by providing them with the skills to locate, interpret, analyze, synthesize, evaluate and communicate information.
Transfer: CSU.

LICENSED VOCATIONAL NURSING [LVN]

004 BASIC INTRAVENOUS THERAPY, BLOOD TRANSFUSION, AND PHLEBOTOMY (2.0)
(Formerly LVN 4)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Prerequisite: Completion of LVN 103B or the equivalent
Prepares the Licensed Vocational Nurse who has successfully completed LVN 103B or its equivalent to initiate intravenous therapy, phlebotomy, and blood product transfusion. This course prepares the LVN for certification that meets standards of the California State Board of Vocational Nurses and Psychiatric Technicians.

101 FUNDAMENTALS THEORY AND BASICS OF NURSING (5.0)
(Formerly LVN 1)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Program admission
Corequisite: LVN 101A and LVN 101B
This is the first in a series of theory courses, which prepares students to practice vocational nursing. The Caring Framework is used for the study of nursing fundamentals, nursing process, and standard nursing and medical care for a variety of common disease states. The course compares and contrasts nursing care systems employed in health maintenance, acute illness, chronic illness and rehabilitation. Adapting standard nursing care to meet the needs of the elderly is also a focus.
Repeatable 1 time.

101A FUNDAMENTAL SKILLS THEORY (5.0)
(Formerly LVN 1A)
5.0 hours lecture per week
Associate Degree Applicable
Applies theory and demonstration of basic nursing skills based on scientific principles. Planning and implementing basic patient care are demonstrated in a simulated clinical setting. Identify relationships between patient care and nursing skills relevant to steps in the nursing process: assessment, planning, implementing, evaluation and documentation. Methods that foster safe medication administration are introduced to develop a baseline for safe practice.

Repeatable 1 time.

101AL FUNDAMENTAL SKILLS LAB
4.5 hours laboratory per week

Associate Degree Applicable
Corequisite: LVN 101 and LVN 101A and LVN 101B

Provides opportunity for supervised practice of basic nursing skills in a simulated clinical setting. During their practice, students apply relationships between theory concepts and nursing skills relevant to steps in the nursing process: assessment, planning, implementing, evaluati
to steps in the nursing process: assessment, planning, implementing, evaluating and documenting, for patients in the extended care facility, community and psychiatric setting. Students will demonstrate competent skills prior to use in clinical settings.

Repeatable 1 time.

103B ADVANCED VOCATIONAL NURSING CLINICAL  (5.5)
(Formerly LVN 3B)
16.5 hours laboratory per week
Associate Degree Applicable
Prerequisite: LVN 102B
Corequisite: LVN 103 and LVN 103A
Prepares students to make the transition from student vocational nurse to entry-level practice. The principles learned in co-requisites and previous theory and skills level courses are applied to care of patients in acute, home care and skilled nursing settings with a team leadership component. Students are challenged with more complicated and unstable patients in a variety of settings. This is a community health focus, which includes visits. This course also includes a 108 hour preceptorship component during the last 5 weeks of the semester.

Repeatable 1 time.

193 LVN SPECIAL TOPICS  (4.0 to 0.5)
(Formerly LVN 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

MATHMATICS [MATH]

003 ARITHMETIC  (3.0)
(Formerly MATH 3)
3.0 hours lecture per week
Associate Degree Non-Applicable
Provides a review of the basic skills of arithmetic. Designed as a transitional course for students who have either not taken a mathematics course for a considerable period of time or who have been in a tutorial program. This course is organized in a regular classroom setting to prepare students for a pre-algebra course.

007 PREALGEBRA  (3.0)
(Formerly MATH 7)
3.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: MATH 007 or equivalent with a grade of C or better
Prepresents the mathematical concepts and arithmetic skills necessary for success in elementary algebra and for further work in mathematics. The concepts are applied to numerous practical problems in order to demonstrate their applicability to real life situations. Not open to students with credit in MATH 123 or its equivalent or any course for which MATH 123 is the prerequisite.

008 INTRODUCTION TO FACTORING  (1.0)
(Formerly MATH 8)
1.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: Completion of MATH 007 or equivalent
Introduces the student to methods of factoring polynomials. Presents the topic from geometric, numeric and algebraic perspectives. Multi-sensory approaches will include manipulatives and graphing. Students should have proficiency in whole number arithmetic skills, including positives and negatives and knowledge of procedures for solving simple linear equations.

021 TWO-SEMESTER BEGINNING ALGEBRA: PART 1  (5.0)
(Formerly MATH 21)
5.0 hours lecture per week
Associate Degree Non-Applicable
Prerequisite: MATH 007 or equivalent with a grade of C or better
Presents the first half of a two-semester course in beginning algebra for the student who has no algebraic background. This course enables students to complete the equivalent of Elementary Algebra, (MATH 123) at a slower pace. Successful completion of MATH 021 or equivalent and MATH 122 is equivalent to MATH 123.

112 CONVERTING MEASUREMENTS  (1.0)
(Formerly MATH 12)
3.0 hours lecture per week
Associate Degree Applicable
Introduces the student to methods of converting from one measurement unit to another. Emphasis will be on basic applications from nutrition, nursing, chemistry, physical sciences and other disciplines.

114 WORD PROBLEMS  (1.0)
(Formerly MATH 14)
1.0 hour lecture per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in MATH 123, MATH 123SI, MATH 127 or MATH 127SI
This course presents strategies for successfully solving word problems such as distance, mixture, work and others at the elementary and intermediate algebra level. This course is intended to help students with word problems in MATH 123 and MATH 127.

115 INTERNSHIP: MATHEMATICS  (2.0 to 0.5)
(Formerly MATH 15)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in MATH 265A
Provides an opportunity for a tutorial experience by an individual student in selected topics in mathematics under the direction of an instructor.

Repeatable 3 times.

119 ELEMENTARY COLLEGE MATHEMATICS  (3.0)
(Formerly MATH 19)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 007 or equivalent with a grade of C or better
Prepresents a course in college mathematics for the student without any algebraic background. Topics include solving linear equations, including applications; geometry; probability and descriptive statistics; and finance.

122 TWO-SEMESTER BEGINNING ALGEBRA: PART 2  (5.0)
(Formerly MATH 22)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 21 or equivalent with a grade of C or better
(Formerly MATH 21A or MATH 21SI, MATH 21 or MATH 21SI)
Prepresents the second half of a two-semester course in beginning algebra for the student who has no algebraic background. This course enables the students to complete the equivalent of Elementary Algebra (MATH 123) at a slower pace. Successful completion of MATH 021 or equivalent and MATH 122 is equivalent to MATH 123.

123 ELEMENTARY ALGEBRA  (5.0)
(Formerly MATH 23)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 007 or equivalent with a grade of C or better
Prepresents the first course in algebra for the student without any algebraic background. Topics include solving linear equations and inequalities, solving quadratic equations by factoring, polynomial expressions, factoring, graphing, linear equations and inequalities in the variables, solving systems of two linear equations and radical expressions and equations.

124 INTERMEDIATE COLLEGE MATHEMATICS  (3.0)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, Elementary Algebra, or the equivalent
Prepresents applications of algebra and critical thinking to solving problems from mathematics and other fields. Topics include mathematical reasoning, count-
ing techniques, probability, statistics, right triangle trigonometry, interpreting graphs, and mathematical modeling to solve problems.

125 **PLANE GEOMETRY**
(Formerly MATH 25)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, MATH 123SI or equivalent course with a grade of C or better
Provides a study of the geometry of two-dimensional Euclidean space with an emphasis on proof using deductive reasoning. An introduction to three-dimensional geometry and applications of both two- and three-dimensional geometry is also presented.

126A **INTERMEDIATE ALGEBRA-PART 1**
(Formerly MATH 26A)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, 122 or equivalent with grade of C or better
Presents the first half of a two-semester course in intermediate algebra. This course enables students to complete the first Intermediate Algebra (MATH 127) at a slower pace. Topics include simplifying rational expressions, absolute value equations and inequalities, functions and relations, and solving systems of linear equations and inequalities.

126B **INTERMEDIATE ALGEBRA-PART 2**
(Formerly MATH 26B)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 126A or equivalent with a grade of C or better
Presents the second half of a two-semester course in intermediate algebra. This course enables students to complete Intermediate Algebra (MATH 127) at a slower pace. Topics include functions and relations, quadratic equations, exponential and logarithmic functions, inverse functions, and sequences and series.

127 **INTERMEDIATE ALGEBRA**
(Formerly MATH 27)
5.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, 122 or equivalent with grade of C or better
Broadens and adds to the concepts of elementary algebra. Such additions include rational expressions, quadratic equations, functions, exponential and logarithmic functions, inverse of functions, solving systems of two or more linear equations, and sequences and series.

128 **PRECALCULUS ALGEBRA: GRAPHING CALCULATOR COMPONENT**
(Formerly MATH 42G)
1.0 hours lecture per week
Associate Degree Applicable
Advisory: Successful completion of MATH 127 or equivalent, and concurrent enrollment in Math 242, is advised.
Supports the MATH 242 Precalculus Algebra course by presenting the features and use of a graphing calculator to solve problems specific to that course. Topics covered will parallel the development of concepts in MATH 242. A TI-83 or TI-84 graphing calculator is required. (Other models not supported.)

193 **MATH SPECIAL TOPIC**
(4.0 to 0.5)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

229 **TRIGONOMETRY**
(Formerly MATH 29)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 127 or 126B and MATH 125 or equivalent courses with a grade of C or better.
Advisory: Math 242.
247  INTRODUCTION TO STATISTICS  (4.0)  
(Formerly MATH 47)  
4.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 127, 126B or equivalent with a grade of C or better  
Present a study of basic descriptive and inferential statistics designed to prepare  
students for work in the fields of economics, business, psychology, education,  
mathematics and applied science. Not open to students with credit in MATH 239 or MATH 249.  
Transfer: CSU; UC (For UC, 4 credit maximum between MATH 236 and 247).

255  CALCULUS FOR BUSINESS AND MANAGEMENT  (3.0)  
(Formerly MATH 55)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 242 or equivalent with a grade of C or better  
Present a study of the techniques of calculus with emphasis placed on the  
application of these concepts to business and management related problems.  
The applications of derivatives and integrals of functions including polynomials,  
rational, exponential, and logarithmic functions are studied.  
Transfer: CSU; UC (For UC, maximum credit of one course between MATH 255  
and 265A).

265A  ANALYTIC GEOMETRY AND CALCULUS  (5.0)  
(Formerly MATH 65A)  
5.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 242 and MATH 229 or equivalent with a grade of C or better  
Present a study of analytic geometry, limits, continuity, the calculus of algebraic,  
trigonometric, exponential and logarithmic functions as well as applications  
of the derivative and integral. Every topic will be taught geometrically,  
numerically, and algebraically.  
Transfer: CSU; UC (For UC, maximum credit of one course between MATH 255  
and 265A).

265B  ANALYTIC GEOMETRY AND CALCULUS  (5.0)  
(Formerly MATH 65B)  
5.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 265A or equivalent with a grade of C or better  
NOTE: If you are transferring from a college on the quarter system the prereq-  
uisite for MATH 265B is two quarters of Calculus. From Cal Poly it is MATH 142  
with a grade of C or better.  
Present a continuing study on integration, some first and second order differen-  
tial equations, Taylor and Fourier series, multiple variable functions, vectors,  
and their applications. Every topic will be taught geometrically, numerically,  
and algebraically.  
Transfer: CSU; UC.

283  CALCULUS  (5.0)  
(Formerly MATH 83)  
5.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 265B (Analytic Geometry and Calculus) or equivalent with a  
grade of C or better  
Present a study of differentiation and integration of multiple variable functions,  
parametric curves in two and three dimensions, optimization, line integrals,  
and the calculus of vector fields. Specific topics include vector functions, partial  
derivatives, surfaces, parametric equations, multiple integrals (with rectangular,  
polar, cylindrical, and spherical coordinates), and vector calculus (including  
line integrals, flux integrals, Greens Theorem, the Divergence Theorem, and  
Stokes Theorem). Every topic will be taught geometrically, numerically, and  
algebraically.  
Transfer: CSU; UC.

287  LINEAR ANALYSIS  (5.0)  
(Formerly MATH 87)  
5.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MATH 265B or equivalent with a grade of C or better  
Present a study of separable and linear ordinary differential equations with  
selected applications; numerical and analytical solutions; second order differen-  
tial equations; Laplace transforms. Delves into Linear Algebra with a study of  
vectors in n-space, matrices, linear transformations, eigenvalues, eigenvectors,  
diagonalization; applies linear algebra in the study of systems of linear differen-  
tial equation.  
Transfer: CSU; UC.

### MEDICAL ASSISTING [MAST]

109  PHLEBOTOMY  (2.5)  
(Formerly MEDAST 9)  
2.78 hours lecture per week  
Associate Degree Applicable  
Prerequisite: Student must be 18 years of age by the first class meeting. Proof of high  
school or equivalent education.  
Corequisite: MAST 109L and Health Care Provider CPR  
Advisory: NRAD 222  
Designed to prepare the student in essential blood specimen collecting skills  
to fulfill CA state phlebotomy certificate requirements. Student is required to  
bring a valid CA driver’s license or CA photo ID card to the first class meeting  
to show proof of age. Must be 18 years or older to be certified.  
Repeatable 1 time.

109L  PHLEBOTOMY LAB  (1.0)  
3.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Student must be 18 years of age by the first class meeting.  
Corequisite: MAST 109  
Advisory: NRAD 222  
Provide students the opportunity of an externship to apply knowledge and skills  
to an acute and/or ambulatory care laboratory setting.  
Repeatable 1 time.

110  MEDICAL ASSISTING BASICS  (2.0)  
(Formerly MEDAST 10)  
2.0 hours lecture per week  
Associate Degree Applicable  
Introduces the medical assisting role and responsibilities, professionalism, and  
medical terminology. Concepts of anatomy, physiology, and computer basics are  
presented to facilitate entry level medical assisting practice.

111  MEDICAL ASSISTING FAST TRACK  (11.0)  
(Formerly MEDAST 11)  
11.33 hours lecture per week  
Associate Degree Applicable  
Prerequisite: Completion of MAST 110 with a grade of C or better or concurrent  
enrollment in MAST 110; Student must be 18 years of age by the first class meeting.  
Corequisite: MAST 111L and Current Health Care Provider CPR and Standard  
First Aid  
Advisory: NRAD 222  
Prepares the student for entry level employment as a medical assistant and  
eligibility for approved state or national certification exam. Must be 18 years  
or older to be certified.  
Repeatable 1 time.

111L  MEDICAL ASSISTING FAST TRACK LAB  (1.0)  
3.77 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Student must be 18 years of age by the first class meeting  
Corequisite: MAST 111 and Current Health Care Provider CPR and Standard  
First Aid  
Provides the opportunity to apply theory during skills lab practice and extern-  
ship Placement in a community front and back office site helps the student perform  
various skills, communications techniques and professionalism under the  
direction of a preceptor. This experience provides marketability for employment  
as a medical assistant and eligibility for approved state or national certification  
exam. Must be 18 years or older to be certified.  
Repeatable 1 time.
193  MEDICAL ASSISTING SPECIAL TOPIC  (4.0 to 0.5)  
(Formerly MEDAST 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

MUSIC [MUS]

193  MUSIC SPECIAL TOPIC  (4.0 to 0.5)  
(Formerly MUS 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

203A  MUSIC THEORY  (5.0)  
(Formerly MUS 3A)  
6.0 hours per week: (5.0 hours lecture, 1.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: Completion of MUS 239, MUS 258 or equivalent background  
Presents a correlated course with two areas of music study: traditional harmonic practice studied through the principles of writing of the Common Practice era including scales, tonality, chords and four-part writing in root position; and aural skills which include solfege with movable do, sight-singing, and aural recognition and dictation of intervals and rhythm. This course is the first in a sequence of three. Required of all music majors.  
Transfer: CSU; UC.

203B  MUSIC THEORY  (5.0)  
(Formerly MUS 3B)  
6.0 hours per week: (5.0 hours lecture, 1.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: MUS 203A or equivalent  
A continuation of MUS 203A. Written theory pursues further part-writing and study of the principles of the Common Practice era, including six-chords, four-four chords, major-minor sevenths, melodic embellishments and modulation. Aural skills are further developed through sight-singing chromatons using movable do, and melodic and harmonic dictation. This course is the second in a sequence of three. Required of all music majors.  
Transfer: CSU; UC.

203C  MUSIC THEORY  (3.0)  
(Formerly MUS 3C)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MUS 203B or equivalent  
A continuation of MUS 203B, with contrapuntal harmonic practices of the 18th, 19th and 20th centuries. The course explores ninth chords, diminished sevenths, half-diminished sevenths, augmented sixth chords, chord beyond the ninths, whole-tone systems and current practices through four-part writing analysis, essays and discussion. Required of all music majors.  
Transfer: CSU; UC.

206  COMPOSING MUSIC FOR MOTION PICTURES AND TELEVISION  (3.0)  
(Formerly MUS 6)  
3.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: MUS 203A, MUS 203B, MUS 203C, or consent of instructor  
Advisory: Knowledge of piano/keyboard technique is desirable.  
A study of the various aspects of composing for video, motion pictures, and television, including appropriate compositional techniques, stylistic considerations and an in-depth study of the uses and application of computer technology in writing, scoring, and synchronizing music for video and film.  
Transfer: CSU.

212  APPLIED MUSIC (PRIVATE LESSONS)  (2.0)  
(Formerly MUS 12)  
7.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Audition and/or consent of instructor  
Corequisite: MUS 203A, MUS 203B, MUS 203C or MUS 239 and MUS 223, MUS 225, MUS 226, MUS 227, MUS 228, MUS 229, MUS 231, MUS 232A, MUS 253, MUS 262, MUS 263 or MUS 265  
A workshop/recital class and a private one-hour lesson per week. The student is required to practice on campus a minimum of five hours per week, and to enroll and participate in a large performing music ensemble. Applied lessons are available in voice, piano, strings, guitar, woodwinds, brass, and percussion.  
Repeatable 3 times.  
Transfer: CSU; UC.

220  ELEMENTARY VOICE  (2.0)  
(Formerly MUS 20)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Presents a study of the techniques of voice training for solo singing. Music will range through appropriate song repertoire and selections from musicals. Class performance required.  
Transfer: CSU; UC.

222  INTERMEDIATE VOICE  (2.0)  
(Formerly MUS 22)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: MUS 220 or equivalent or audition and/or consent of instructor  
Provides an opportunity for students to continue with advanced study of singing and preparation of song repertoire on an individual basis. Public performance required.  
Repeatable 3 times.  
Transfer: CSU; UC.

223  VOCAL JAZZ ENSEMBLE  (3.0 to 2.0)  
(Formerly MUS 23)  
9.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Audition and/or consent of instructor  
Advisory: Eligibility for ENGL 156.  
Presents the study and performance of literature in the vocal jazz and popular music genre with emphasis upon vocal improvisation in the jazz and scat style. Student compositions and arrangements will be encouraged. Attendance at scheduled performances is required.  
Repeatable 3 times.  
Transfer: CSU; UC.

224  VOCAL JAZZ WORKSHOP  (2.0)  
(Formerly MUS 24)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: Audition and/or consent of instructor  
Practice and study vocal jazz literature and techniques. Introduce vocal jazz improvisation and vocal jazz harmonies.  
Repeatable 3 times.  
Transfer: CSU; UC.

225  WIND ORCHESTRA  (2.0)  
(Formerly MUS 25)  
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)  
Associate Degree Applicable  
Prerequisite: Audition and/or consent of instructor  
Study and public performance of music written specifically for large wind orchestras (woodwinds, brass, and percussion). Limited to those students who have had experience with wind and percussion instruments.  
Repeatable 3 times.  
Transfer: CSU; UC.

226  BAND  (3.0 to 1.0)  
(Formerly MUS 26)  
9.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Ability to play a band instrument and audition and/or consent of
**COURSES**

**227 INSTRUMENTAL SMALL ENSEMBLE**
(Formerly MUS 27)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Ability to play a musical instrument and audition and/or consent of instructor
Presents the study and performance of appropriate literature for limited, carefully balanced ensembles with emphasis on developing repertoire for required public performances.
Repeatable 3 times.
Transfer: CSU; UC.

**230A MUSIC HISTORY**
(Formerly MUS 30A)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: MUS 239 or MUS 203A.
Studies the history of music in Western civilization from the time of the earliest recorded music to the Baroque period.
Transfer: CSU; UC.

**230B MUSIC HISTORY**
(Formerly MUS 30B)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: MUS 230A, MUS 239 or MUS 203A.
Studies the history of music in Western civilization from the Baroque period to the present, including Avant Garde and Serial Techniques.
Transfer: CSU; UC.

**231 JAZZ ENSEMBLE**
(Formerly MUS 31)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Ability to play an instrument and to read music at sight and audition and/or consent of instructor
Presents the study and performance of appropriate wind ensemble literature with emphasis on developing repertoire for required public performances.
Repeatable 3 times.
Transfer: CSU; UC.

**232A CONCERT JAZZ ENSEMBLE**
(Formerly MUS 32A)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Advisory: Ability to play an instrument.
The concert jazz ensemble is a performance organization designed to acquaint the student with a wide variety of jazz and swing compositions, arrangements and guest soloists. This course will stress stylistic interpretation and ensemble playing. It will be limited to students with considerable experience.
Repeatable 3 times.
Transfer: CSU; UC.

**233 JAZZ IMPROVISATION**
(Formerly MUS 33)
3.0 hours per week: (2.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Ability to read music and play an instrument or sign and audition and/or consent of instructor
Advisory: Completion of MUS 239 or equivalent and concurrent enrollment in MUS 227.
Provides an opportunity for performance and analysis of jazz improvisation. Public performances may be required.
Repeatable 3 times.
Transfer: CSU; UC.

**234 ARRANGING, SCORING, AND ORCHESTRATION**
(Formerly MUS 34)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MUS 203B or equivalent and knowledge of jazz literature, styles and basic piano skills
Advisory: Concurrent enrollment in MUS 223, MUS 225, MUS 227, MUS 228, MUS 229, MUS 231, or MUS 232A.
Provides an opportunity for composing, arranging and orchestrating for jazz ensembles and orchestras. Focuses on the analysis of jazz and classical harmonic practices, relation of contemporary melodic and rhythmic concepts to instrumentation.
Repeatable 3 times.
Transfer: CSU; UC.

**235 MUSIC APPRECIATION: CLASSICAL MUSIC**
(Formerly MUS 35)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces classical music in its evolution from the earliest recorded through the 20th century. Includes the study and analysis of significant works.
Transfer: CSU; UC.

**237 MUSIC APPRECIATION: AMERICAN POPULAR MUSIC**
(Formerly MUS 37)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the non-music major to the history and literature of the popular music movement in the United States. Emphasizes musical styles and personalities from the late forties to the present.
Transfer: CSU; UC.

**238 MUSIC APPRECIATION: JAZZ HISTORY**
(Formerly MUS 38)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the history and literature of jazz music in the United States. Emphasizes the styles and musical personalities involved from 1900 to the present. Designed for the non-music major.

239 FUNDAMENTALS OF MUSIC (3.0)
(Formerly MUS 39)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: No previous musical experience necessary.
Provides a thorough foundation in fundamentals of music for the non-major or the potential music major who does not have an adequate background.
Transfer: CSU; UC.

240 RECORDING ARTS I: FUNDAMENTALS OF AUDIO TECHNOLOGY (3.0)
(Formerly MUS 40)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Introduction to audio technology, including sound characteristics, signal flow, basic recording console functions, microphone types and techniques, signal processing, and mixing techniques.
Transfer: CSU.

241 RECORDING ARTS II: STUDIO WORKSHOP (3.0)
(Formerly MUS 41)
4.0 hours per week: (3.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MUS 240
Provides the student with an in-depth introduction to audio equipment and techniques. Topics include basic studio procedures, equipment design and proper use of multitrack techniques using the Digidesign Pro Tools HD System and D-Command Console.
Transfer: CSU.

242 RECORDING ARTS III: ADVANCED AUDIO TECHNOLOGY (3.0)
(Formerly MUS 42)
4.0 hours per week: (0.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Successful completion of Recording Arts I and II or other experience assessed by the instructor.
Provides an advanced study or new technologies, focusing on an in-depth look at recording, editing and mixing within the Digidesign HD Pro Tools environment and D-Command Console.
Transfer: CSU.

243 RECORDING ARTS IV: STUDIO WORKSHOP II (4.0)
(Formerly MUS 43)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Successful completion of Recording Arts I, II, and III, or other assessed by the instructor.
This is a project-based course that offers students studio time to track, edit, mix, master and create a portfolio of five sessions from a variety of musical sources selected by both the instructor and student.
Transfer: CSU.

245 JAZZ WORKSHOP (2.0)
(Formerly MUS 45)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition
Advisory: Ability to play an instrument.
The jazz workshop is a performance organization designed to acquaint the student with a wide variety of jazz and swing compositions, arrangers and guest soloists. Stress styles, stylistic interpretation and ensemble playing.
Repeatable 3 times.
Transfer: CSU.

246 EVENING JAZZ ENSEMBLE (2.0)
(Formerly MUS 46)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition or consent of instructor.
Provides experience reading, rehearsing and public performance of music arranged for large jazz group and will stress stylistic interpretation and ensemble playing. It is limited to a carefully balanced ensemble and attendance at scheduled performances is required.
Repeatable 3 times.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: MUSIC (2.0 to 0.5)
(Formerly MUS 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of music under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

248 JAZZ ENSEMBLE: SWING ERA BIG BAND (2.0)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MUS 203A, 203B, 203C, 230A, 203B, or 230C.
Provides for reading, preparing, and performing of music arranged for a Swing Era big band style jazz ensemble with special emphasis on the music of the Swing Era.
Repeatable 3 times.
Transfer: CSU.

249 JAZZ ENSEMBLE: THE MUSIC OF DUKE ELLINGTON (2.0)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MUS 203A or MUS 239
Provides for reading, preparing, and performing of music arranged for a Big Band style jazz ensemble with special emphasis on the music of Duke Ellington.
Repeatable 3 times.
Transfer: CSU.

250 MUSICAL THEATRE WORKSHOP (3.0)
(Formerly MUS 50)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Corequisite: Completion of or concurrent enrollment in MUS 203A or MUS 239
Advisory: Previous choral or dance experience is recommended.
Develops skills for performance in Musical Theatre, including singing, acting, stage movement and choreography. Public performance may be required.
Same as DRA 250.
Repeatable 3 times.
Transfer: CSU; UC.

251 MUSICAL THEATRE PERFORMANCE (3.0)
(Formerly MUS 51)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in DRA 250 or MUS 250 or audition and/or consent of instructor
Develops skills for performance in Musical Theatre, including singing, dancing, makeup, stagecraft, and publicity. Produces one musical each semester. Public performance will be required.
Same as DRA 251.
Repeatable 3 times.
Transfer: CSU; UC.

253 MASTER CHORALE (2.0)
(Formerly MUS 53)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
COURSES

255 WORKSHOP IN INSTRUMENTAL ENSEMBLE MUSIC (3.0)
(Formerly MUS 55)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Ability to play an orchestral instrument and audition and/or consent of instructor
Presents the study and performance of appropriate instrumental ensemble and orchestral music selected from standard repertoires leading to a series of public performances.
Repeatable 3 times.
Transfer: CSU; UC.

256 ORCHESTRA (3.0)
(Formerly MUS 56)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Ability to play an orchestral instrument and audition and/or consent of instructor
Presents the study and performance of appropriate combined string and wind ensemble literature with the emphasis upon developing repertoire for required public performances.
Repeatable 3 times.
Transfer: CSU; UC.

258 ELEMENTARY PIANO (2.0)
(Formerly MUS 58)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduces the student to practical keyboard facility, sight reading, harmony and performance of elementary piano repertoire. Required for music majors.
Repeatable 3 times.
Transfer: CSU; UC.

259 INTERMEDIATE PIANO (2.0 to 1.0)
(Formerly MUS 59)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MUS 258 or equivalent or audition and/or consent of instructor
The study and performance of concert piano literature from Baroque, Classic, Romantic, and 20th Century time periods. The student will develop and improve pianistic skills and repertoire.
Repeatable 3 times.
Transfer: CSU; UC.

260 JAZZ PIANO TECHNIQUES (2.0 to 1.0)
(Formerly MUS 60)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: MUS 258 or equivalent or audition and/or consent of instructor
This course provides the student with basic jazz piano playing skills including voicings of 9th, 11th, and 13th chords applied to arranging lead sheets for piano.
Repeatable 3 times.
Transfer: CSU; UC.

262 CHORAL MUSIC II: CHORAL MUSIC OF THE CLASSICAL PERIOD (2.0)
(Formerly MUS 62)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Presents the study and performance of major historical choral works with concentration on the Classical Period. Students will develop and improve choral music techniques and repertoire. Auditions will be scheduled at the beginning of each semester.
Repeatable 3 times.
Transfer: CSU; UC.

263 MUSIC III: CHORAL MUSIC OF THE ROMANTIC TO EARLY 20TH CENT (2.0)
(Formerly MUS 63)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Presents the study and performance of major historical choral works with concentration on the Classical Period from the end of the Classical Period to the early 20th century. Students will develop and improve choral techniques and repertoire. Auditions will be scheduled at the beginning of each semester.
Repeatable 3 times.
Transfer: CSU; UC.

264 MUSIC IV: MODERN PERIOD (2.0)
(Formerly MUS 64)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Presents the study and performance of major historical choral works with concentration on the Modern Period (Post World War I to present). Students will develop and improve choral music techniques and repertoire. Auditions will be scheduled at the beginning of each semester.
Repeatable 3 times.
Transfer: CSU; UC.

265 MUS V: MASTER WORKS FROM J.S. BACH TO MOZART (2.0)
(Formerly MUS 65)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Audition and/or consent of instructor
Presents the study and performance of major historical choral works from the time of J.S. Bach to Wolfgang Amadeus Mozart. Students will develop and improve choral singing skills and techniques. Audition required at the beginning of each semester. May be taken four semesters for credit.
Repeatable 3 times.
Transfer: CSU; UC.

266 CHORAL MUSIC 1: MUSIC OF THE MASTERS (2.0)
8.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory), 4.0 hours laboratory by arrangement
Associate Degree Applicable
Prerequisite: Audition for placement and/or consent of the instructor.
Study and performance of major historical choral works with emphasis on master composers. These include, but are not limited to, J.S. Bach, W.A. Mozart, Joseph Haydn, Felix Mendelssohn, Johannes Brahms, Ludwig van Beethoven, Giuseppe Verdi, Benjamin Britten, and Igor Stravinsky. Students will develop and improve choral music techniques through rehearsing great choral works. Auditions will be scheduled at the beginning of each semester. May be taken four semesters for credit.
Transfer: CSU; UC.

270 ELEMENTARY GUITAR (2.0)
(Formerly MUS 70)
3.0 hours per week: (1.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Introduces the techniques of playing the guitar. Topics include reading music, flat picking and finger picking, chords, and the playing of melodies. No previous musical experience is required. Students must provide their own acoustic or electric guitar.
Repeatable 3 times.
Transfer: CSU; UC.
**NURSING ASSISTANT [NAST]**

125  **EKG MONITOR OBSERVER**  (1.0)  
(Formerly NRAST 25)  
6.0 hours lecture per week  
Associate Degree Applicable  
Provides the student with the skills to analyze and interpret basic cardiac rhythms. Emphasis is on recognition of clinically significant rhythms. Treatment is not covered. Concepts include basic cardiac anatomy and physiology, electrical conduction through the heart, components of the EKG waveform, and identification of normal and abnormal cardiac rhythms.

145  **ACUTE CARE NURSE ASSISTANT**  (2.0)  
(Formerly NRAST 45)  
2.2 hours lecture per week  
Associate Degree Applicable  
Corequisite: NAST 145L  
Advisory: ENGL 156.  
Prepares the certified nurse assistant to function at a competent level in the acute care setting. Provides guidelines for acute clinical experiences. Facilitate an understanding of human beings as integrated physiological, social, and psychological organisms. Student is required to bring a valid CA driver's license or CA photo ID card to the first class meeting to show proof of age. Must be 18 years of age by the first class meeting.  
Repeatable 1 time.

145L  **ACUTE CARE NURSE ASSISTANT LAB**  (1.0)  
3.11 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: Student must be 18 years of age by the first class meeting. NAST 145  
Corequisite: NAST 145  
Prepares the certified nurse assistant to function at a competent level in the acute care setting. Provides guidelines for acute clinical experiences. Facilitate an understanding of human beings as integrated physiological, social, and psychological organisms. Student is required to bring a valid CA driver's license or CA photo ID card to the first class meeting to show proof of age. Must be 18 years of age by the first class meeting.  
Repeatable 1 time.

148  **NURSING ASSISTANT**  (3.0)  
(Formerly NRAST 48)  
3.0 hours lecture per week  
Associate Degree Applicable  
Corequisite: NAST 148L  
Advisory: Eligibility for ENGL 156.  
Prepares the student with the skills necessary for basic nursing care. Upon completion of this course, students are eligible to take the Nurse Assistant Training and Assessment Program Test (NATAP). This will allow the candidate to obtain a certificate as a nurse assistant in the state of California.  
Repeatable 3 times.

148L  **NURSING ASSISTANT LAB**  (2.0)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Corequisite: NAST 148  
Provides skills necessary for basic nursing care. Requires supervised clinical experiences in a skilled nursing facility. Upon completion of this course, students are eligible to take the Nurse Assistant Training and Assessment Program Test (NATAP). This will allow the candidate to obtain a certificate as a nurse assistant in the state of California. Must be able to lift 50 pounds.  
Repeatable 3 times.

193  **NURSING ASSISTANT SPECIAL TOPIC**  (4.0 to 0.5)  
(Formerly NRAST 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

**NURSING REGISTERED ASSOC. DEG. [NRAD]**

000  **NURSING PROGRAM SUCCESS SKILLS**  (1.0)  
(Formerly NRAD 100)  
6.0 hours lecture per week  
Associate Degree Non-Applicable  
Identification and application of skills designed to support success in the nursing program. Emphasizes effective study routines, time management, strategies for reading nursing texts, clinical preparation, establishing and running effective study groups. Test taking strategies specific to the NCLEX style test question are reviewed.

000E  **NCLEX PREPARATION**  (0.5)  
(Formerly NRAD 4E)  
0.5 hours lecture per week  
Associate Degree Non-Applicable  
Corequisite: NRAD 204B  
This course is to help prepare the RN student for the state licensing exam. Critical thinking strategies required to answer the NCLEX questions are presented. A portion of this class will be hands-on computer testing to simulate the state board testing format.

103G  **CRITICAL THINKING SEMINAR**  (1.0)  
(Formerly NRAD 3G)  
2.0 hours lecture per week  
Associate Degree Applicable  
Prerequisite: Admission to the nursing program  
For the third semester nursing student. An analysis of complex patient scenarios that require independent critical thinking for the entry level nurse. Incorporates advanced assessment skills to modify and revise the care plan for complex clients.  
Repeatable 1 time.

103H  **THIRD SEMESTER NURSING READINESS**  (0.5)  
(Formerly NRAD 3H)  
4.5 hours lecture per week  
Associate Degree Applicable  
Corequisite: Admission to the nursing program  
Corequisite: NRAD 2034  
A course designed for registered nursing students entering the third semester. Nursing concepts necessary for success in the third semester are reviewed.

120  **SUPPLEMENTARY NURSING SKILLS PRACTICE**  (3.0 to 0.5)  
(Formerly NRAD 20)  
9.0 hours laboratory per week  
Associate Degree Applicable  
Corequisite: Enrollment in the nursing program  
Provides the opportunity to practice nursing skills in a caring environment. Nursing skills will vary from the simple to the complex, allows for demonstration and assessment of nursing skills and knowledge learned in nursing lecture and laboratory courses. Practice opportunities vary from highly structured to less structured simulated clinical situations. Note: 0.5 unit required in first, second, and third semester.  
Repeatable 3 times.

193  **NURSING SPECIAL TOPIC**  (4.0 to 0.5)  
(Formerly NRAD 93)  
Associate Degree Applicable  
Examines a special topic in the field of study related to the discipline offering this course.

201  **FOUNDATIONS OF NURSING/CARING**  (2.0)  
(Formerly NRAD 1)  
2.0 hours lecture per week  
Associate Degree Applicable  
Advisory: Eligibility for ENGL 201A.  
Introduces caring theory as the essence of nursing. Foundational concepts include communication, teaching/learning, nursing process, life-span. Self-care
and academic success principles are introduced. Surveys historical, social, legal, economic and ethical aspects of nursing, emphasizing critical thinking, patient advocacy and caring in a multicultural society.

Transfer: CSU.

202A NURSE CARING CONCEPTS
(Formerly NRAD 1A)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Admission into the registered nursing program
Corequisite: NRAD 201B
Applies the foundational caring concepts of communication, teaching, learning, nursing process, caring, energy and life span as a structure for nursing practice. Provides a foundation for health promotion in a multicultural society. Introduces independent learning modules.

Transfer: CSU.

202B NURSE CARING PRACTICUM II
(Formerly NRAD 1B)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Admission into the registered nursing program
Corequisite: NRAD 201B
Applies the foundational caring concepts of communication, teaching, learning, nursing process, caring, energy and life span as a structure for nursing practice. Provides a foundation for health promotion in a multicultural society. Introduces independent learning modules.

Transfer: CSU.

202A NURSE CARING CONCEPTS
(Formerly NRAD 1A)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Admission into the registered nursing program
Corequisite: NRAD 201B
Applies the foundational caring concepts of communication, teaching, learning, nursing process, caring, energy and life span as a structure for nursing practice. Provides a foundation for health promotion in a multicultural society. Introduces independent learning modules.

Transfer: CSU.

202B NURSE CARING PRACTICUM II
(Formerly NRAD 1B)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Admission into the registered nursing program
Corequisite: NRAD 201B
Applies the foundational caring concepts of communication, teaching, learning, nursing process, caring, energy and life span as a structure for nursing practice. Provides a foundation for health promotion in a multicultural society. Introduces independent learning modules.

Transfer: CSU.

203 A NURSE CARING CONCEPTS III
(Formerly NRAD 3A)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: 30 Unit Option Program Admission
Corequisite: NRAD 203A
Introduces caring theory as the essence of nursing. Self care and academic success principles are introduced. Surveys legal and ethical aspects of nursing, emphasizing critical thinking, patient advocacy and caring in a multicultural society. Provides an 8-week transition course required for 30 unit option students.

Transfer: CSU.

203 A NURSE CARING CONCEPTS III
(Formerly NRAD 3A)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: 30 Unit Option Program Admission
Corequisite: NRAD 203A
Introduces caring theory as the essence of nursing. Self care and academic success principles are introduced. Surveys legal and ethical aspects of nursing, emphasizing critical thinking, patient advocacy and caring in a multicultural society. Provides an 8-week transition course required for 30 unit option students.

Transfer: CSU.

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(Formerly NRAD 3A)
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Transfer: CSU.
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<th>Units</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>204</td>
<td>Nurse Leadership/Management</td>
<td>1.0</td>
<td>1.0 hours lecture per week</td>
</tr>
<tr>
<td>204A</td>
<td>Nurse Caring Concepts for Clients Psychiatrically at Risk</td>
<td>2.0</td>
<td>2.0 hours lecture per week</td>
</tr>
<tr>
<td>204B</td>
<td>Nurse Caring for People at Risk Practicum</td>
<td>6.0</td>
<td>18.0 hours laboratory per week</td>
</tr>
<tr>
<td>204D</td>
<td>Nurse Caring for People at Risk Concepts</td>
<td>2.0</td>
<td>2.0 hours lecture per week</td>
</tr>
<tr>
<td>219</td>
<td>Beginning Student Intern</td>
<td>3.0 to 1.0</td>
<td>9.0 hours laboratory per week</td>
</tr>
<tr>
<td>222</td>
<td>Medical Terminology</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
</tr>
<tr>
<td>212</td>
<td>Prenatal Nutrition</td>
<td>1.0</td>
<td>3.0 hours lecture per week</td>
</tr>
<tr>
<td>214</td>
<td>Infant Nutrition</td>
<td>1.0</td>
<td>3.0 hours lecture per week</td>
</tr>
</tbody>
</table>

**NUTRITION [NUTR]**

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</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>Nutrition</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
</tr>
<tr>
<td>193</td>
<td>Nutrition Special Topic</td>
<td>4.0 to 0.5</td>
<td>Examine a special topic in the field of study related to the discipline offering this course.</td>
</tr>
<tr>
<td>211</td>
<td>Introduction to Nutrition for Health Professionals</td>
<td>3.0</td>
<td>3.0 hours lecture per week</td>
</tr>
<tr>
<td>247</td>
<td>Independent Studies: Nursing</td>
<td>2.0 to 0.5</td>
<td>6.0 hours laboratory per week</td>
</tr>
</tbody>
</table>

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Transfer: CSU; UC.
216 **TODDLER/PRESCHOOLER NUTRITION**  (1.0)  
(Formerly NUTR 16)  
3.0 hours lecture per week  
Associate Degree Applicable  
Examines the nutritional needs of the toddler/preschooler, including the interpretation of food groups and their chemical composition as applied to the utilization of nutrients in the bodies of these particular individuals.  
Transfer: CSU.  

218 **MATERNAL & CHILD NUTRITION**  (3.0)  
(Formerly NUTR 18)  
3.0 hours lecture per week  
Associate Degree Applicable  
Examines the nutritional requirements of the pregnant woman, developing fetus, infant, toddler and child.  
Transfer: CSU.  

222 **FOOD CUSTOMS AND CULTURE**  (3.0)  
(Formerly NUTR 22)  
3.0 hours lecture per week  
Associate Degree Applicable  
Examines the impact of stereotypes, stigmas, and discrimination on the health of non-dominant ethnic/racial and select minority groups (women, children and religious) based on their heritage consistent food patterns and preferences. Various socio-political, industrial, environmental, communication styles, and psychological factors influencing assimilation and acculturation will be analyzed to promote prejudice reduction and understanding of the meaning of food to cultures around the world. Non-traditional and/or experiential teaching/learning strategies may be used to evaluate nutritional excesses as well as deficiencies across the life span.  
Transfer: CSU.  

224 **GERONTOLOGICAL NUTRITION**  (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Introduces the basic nutrition concepts and theories that impact the nutritional status of older persons. Emphasis is placed on the physiologic changes of aging and the effect on nutrition status; the factors that influence nutrient intakes and what diet and/or exercise changes may correct nutrition deficiencies and/or stabilize chronic diseases.  
Transfer: CSU.  

230 **NUTRITION FOR FITNESS AND SPORT**  (3.0)  
(Formerly NUTR 30)  
3.0 hours lecture per week  
Associate Degree Applicable  
Advisory: ENGL 156 and NUTR 210.  
Presents a specialized course relating nutrition to physical performance and fitness. Explores current trends, controversies, and professional publications. Provides opportunity to analyze various dietary recommendations and relate them to specific physical needs.  
Transfer: CSU.  

247 **INDEPENDENT STUDIES: NUTRITION**  (2.0 to 0.5)  
(Formerly NUTR 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.  
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of nutrition under the direction of an instructor.  
Repeatable 3 times.  
Transfer: CSU.  

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**OCEANOGRAPHY [OCEN]**  

210 **OCEANOGRAPHY**  (3.0)  
(Formerly OCEAN 10)  
3.0 hours lecture per week  
Associate Degree Applicable  
Premequisite: MATH 123 or MATH 123SI  
Advisory: ENGL 156 or ENGL 165.  
Introduces the fundamentals of oceanography, including the history and scope of oceanography, properties of sea water, ocean currents, ocean waves and tides, submarine morphology and geology, marine sediments, life in the sea, and the significance of the oceans to local and global environments.  
Transfer: CSU; UC.  

210L **OCEANOGRAPHY LABORATORY**  (1.0)  
(Formerly OCEAN 10L)  
3.0 hours laboratory per week  
Associate Degree Applicable  
Premequisite: Completion of or concurrent enrollment in OCEN 210  
Laboratory and field investigations of marine environments, including geologic, physical, chemical, and biological aspects of the ocean and coastal area. The course emphasizes changing physical factors and human activities as they affect the oceans.  
Transfer: CSU; UC.  

212 **Introduction to Meteorology**  (3.0)  
3.0 hours lecture per week  
Associate Degree Applicable  
Premequisite: MATH 123 or equivalent  
Advisory: ENGL 156  
Introduces the fundamentals of meteorology, including the nature and origin of the atmosphere. Topics include atmospheric circulation, humidity, cloud formation, precipitation, storm growth, cyclone development, climates of the earth, and global climate change.  
Transfer: CSU.  

247 **INDEPENDENT STUDIES – OCEANOGRAPHY**  (4.0 to 0.5)  
(Formerly OCEAN 47)  
6.0 hours laboratory per week  
Associate Degree Applicable  
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Oceanography under the direction of an instructor.  
Repeatable 3 times.  
Transfer: CSU.  

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**ONLINE [DIST]**  

101 **INTRODUCTION TO ONLINE COURSES**  (0.5)  
(Formerly ONLINE 1)  
4.5 hours laboratory per week  
Associate Degree Applicable  
Introduces students to the different types of technologies utilized in a distance education course. Students will determine if distance education is right for them and learn academic and technological skills for success in distance education and technology mediated courses.  
Repeatable 1 time.  

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**PARALEGAL [PLGL]**  

130 **INTERVIEWING AND INVESTIGATION FOR PARALEGALS**  (1.0)  
(Formerly PARAL 30)  
1.0 hours lecture per week  
Associate Degree Applicable  
Provides investigative techniques and strategies and interviewing methods for evidence gathering for all areas of litigation.
### COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>131</td>
<td>CURRENT ETHICAL ISSUES FOR PARALEGALS</td>
<td>(1.0)</td>
<td>Examines current ethical issues for paralegals using case law and examples of lawyer and paralegal misconduct.</td>
</tr>
<tr>
<td>132</td>
<td>LEGAL TERMINOLOGY FOR PARALEGALS</td>
<td>(1.0)</td>
<td>Introduces the paralegal student to legal terminology commonly used in the areas of family law, civil litigation and procedures, criminal law, corporate law, administrative law and estate planning.</td>
</tr>
<tr>
<td>147</td>
<td>INDEPENDENT STUDIES: PARALEGAL</td>
<td>(2.0 to 0.5)</td>
<td>Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Paralegal under the direction of an instructor. Repeatable 3 times.</td>
</tr>
<tr>
<td>193</td>
<td>PARALEGAL SPECIAL TOPIC</td>
<td>(4.0 to 0.5)</td>
<td>Examines a special topic in the field of study related to the discipline offering this course. Repeatable 3 times.</td>
</tr>
<tr>
<td>201</td>
<td>INTRODUCTION TO PARALEGAL STUDIES</td>
<td>(3.0)</td>
<td>Introduces the professional responsibilities of the paralegal, including rules regarding ethical conduct and a basic overview of the legal system and research. Covers different law office management functions commonly performed by paralegals such as basic correspondence, billing and financial management, calendar and docket control management, file and record management, and library management. Transfer: CSU.</td>
</tr>
<tr>
<td>203</td>
<td>PARALEGAL INTERNSHIP</td>
<td>(3.0)</td>
<td>Provides students an opportunity to experience the responsibilities of an employee in a legal setting related to their courses in paralegal studies. Transfer: CSU.</td>
</tr>
<tr>
<td>205</td>
<td>CIVIL/LITIGATION PROCEDURES AND DOCUMENTS</td>
<td>(3.0)</td>
<td>Introduces the terminology and procedures used in general civil procedure and litigation including pretrial procedures, discovery, trial, and post trial procedures. Covers specific areas such as landlord/tenant disputes and employment disputes and includes procedures used in alternative dispute resolution such as arbitration and mediation. Sample pleadings, forms, and documents will be processed in logical sequence and will be accompanied by definitions, background information and step by step instructions and statements of procedures. Transfer: CSU.</td>
</tr>
<tr>
<td>193C</td>
<td>TOTAL BODY FITNESS</td>
<td>(1.0)</td>
<td>Presents the concepts of muscular endurance, cardiovascular development, and resistance training to improve overall muscle tone, cardiovascular fitness and body composition. Students will use various exercise equipment in a guided environment to improve overall fitness. Repeatable 3 times.</td>
</tr>
<tr>
<td>193I</td>
<td>Advanced Baseball</td>
<td>(2.0)</td>
<td>Designed for students of advanced ability in baseball. Fundamentals of offence, defense and advanced strategies will be stressed. Recommended for those interested in intercollegiate competition. Repeatable 3 times.</td>
</tr>
<tr>
<td>193J</td>
<td>Advanced Swimming</td>
<td>(2.0)</td>
<td>Designed for students of advanced ability in swimming. Fundamentals of all four competitive strokes, and advanced strategies of how to compete as an individual/team will be stressed. Recommended for those interested in intercollegiate competition. Repeatable 3 times.</td>
</tr>
<tr>
<td>206</td>
<td>PILATES FOR HEALTH AND FITNESS</td>
<td>(1.0 to 0.5)</td>
<td>Presents a progressive exercise program using the Pilates method. Exercises encompass the strength and flexibility fitness components, while focusing on alignment, efficiency of movement, balance and coordination. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>210</td>
<td>CARDIO KICKBOXING</td>
<td>(1.0 to 0.5)</td>
<td>Presents the concepts of muscular endurance, cardio respiratory fitness, muscular strength flexibility and spirituality of boxing and kickboxing. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>220</td>
<td>ATHLETIC SKILL AND TRAINING DEVELOPMENT</td>
<td>(0.5)</td>
<td>Provides advanced skills and strategy to prepare students for athletic competition. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>240</td>
<td>SWIMMING</td>
<td>(1.0 to 0.5)</td>
<td>Provides an opportunity to experience the responsibilities of an employee in a legal setting related to their courses in paralegal studies. Transfer: CSU.</td>
</tr>
</tbody>
</table>

### PE ACTIVITIES (PEAC)

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<tbody>
<tr>
<td>193J</td>
<td>PHYSICAL EDUCATION SPECIAL TOPIC</td>
<td>(4.0 to 0.5)</td>
<td>Examines a special topic in the field of study related to the discipline offering this course. Repeatable 3 times.</td>
</tr>
<tr>
<td>193J</td>
<td>TOTAL BODY FITNESS</td>
<td>(1.0)</td>
<td>Provides an opportunity for the advanced topics in the field of study related to the discipline offering this course. Repeatable 3 times.</td>
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<td>Provides students an opportunity to experience the responsibilities of an employee in a legal setting related to their courses in paralegal studies. Transfer: CSU.</td>
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<td>ATHLETIC SKILL AND TRAINING DEVELOPMENT</td>
<td>(0.5)</td>
<td>Provides advanced skills and strategy to prepare students for athletic competition. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
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<tr>
<td>240</td>
<td>SWIMMING</td>
<td>(1.0 to 0.5)</td>
<td>Provides an opportunity to experience the responsibilities of an employee in a legal setting related to their courses in paralegal studies. Transfer: CSU.</td>
</tr>
</tbody>
</table>
Provides training for students wishing to improve swimming skills in order to increase recreational enjoyment, to improve stroke technique, and to increase endurance, strength, and stamina. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

241 SPRINGBOARD DIVING
(Formerly PEACT 41)
3.0 hours laboratory per week
Associate Degree Applicable
Provides instruction and practice in springboard diving with emphasis on coordination, body mechanics and mastery of diving techniques. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

242 WATER POLO
(Formerly PEACT 42)
3.0 hours laboratory per week
Associate Degree Applicable
Provides the opportunity for swimmers to develop an interest in and knowledge of water polo. Presents the rules and fundamental skills of the game. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

247 INDEPENDENT STUDIES: PHYSICAL EDUCATION ACTIVITY
(Formerly PEACT 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken. Provides an opportunity for an in-depth study or skill development experience by an individual student in a selected topic of physical education under the direction of an instructor. Repeatable 3 times. Transfer: CSU.

250 WRESTLING
(Formerly PEACT 50)
3.0 hours laboratory per week
Associate Degree Applicable
Presents the basic skill techniques involved in freestyle, Greco-Roman and college-style wrestling. Emphasizes active participation in drill and scrimmage situations. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

260 CYCLING FOR CARDIO FITNESS
(Formerly PEACT 60)
3.0 hours laboratory per week
Associate Degree Applicable
Presents the concepts of cardio-respiratory fitness, muscular endurance, muscular strength and flexibility in a cycling format. Students will use a combination of cardio-respiratory training and strength work using stationary bikes to enhance overall fitness and health levels. Repeatable 3 times. Transfer: CSU.

262 YOGA
(Formerly PEACT 62)
3.0 hours laboratory per week
Associate Degree Applicable
Introduces the ancient discipline of personal development which balances the mind, body and spirit. Students will learn the history of yoga and a series of physical postures (asanas) as well as practical methods of proper breathing, relaxation, meditation, and concentration that promote health, alleviate stress, improve skeletal alignment and increase muscular strength and flexibility. Repeatable 3 times. Transfer: CSU.

264 STEP TRAINING
(Formerly PEACT 64)
3.0 hours laboratory per week
Associate Degree Applicable
Presents a total fitness program, including cardiovascular, muscular strength and flexibility fitness through a step training program. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

265 ADULT FITNESS
(Formerly PEACT 65)
3.0 hours laboratory per week
Associate Degree Applicable
Presents the opportunity, methods, materials, and knowledge for the student to begin a lifetime adult physical fitness program. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

266 ENDURANCE CONDITIONING
(Formerly PEACT 66)
3.0 hours laboratory per week
Associate Degree Applicable
Presents a programmed method of cardiovascular/respiratory fitness through walking, running, swimming and/or cycling. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

268 STRETCHING ROUTINES FOR FITNESS AND SPORTS
(Formerly PEACT 68)
3.0 hours laboratory per week
Associate Degree Applicable
Presents a program of controlled stretch patterns to increase flexibility, relax tension, and help prevent injuries in sports activities. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

269 CIRCUIT WEIGHT TRAINING
(Formerly PEACT 69)
3.0 hours laboratory per week
Associate Degree Applicable
Introduces an open laboratory physical fitness course designed to develop muscular endurance and strength. Presents an opportunity to develop a positive attitude and work habits leading to cardiovascular efficiency, optimum body composition and flexibility. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

270 BEGINNING WEIGHT TRAINING
(Formerly PEACT 70)
3.0 hours laboratory per week
Associate Degree Applicable
Presents the fundamentals of weight training and the principles involved in developing a strength and endurance conditioning program. Students will learn proper training techniques utilizing a variety of exercise modalities to achieve strength, endurance and core stability. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>271</td>
<td>INTERMEDIATE WEIGHT TRAINING</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td><strong>Prerequisite:</strong> PEAC 270 or by consent of instructor. Presents concepts and techniques of strength and endurance training for the intermediate level student. Training strategies and their underlying principles will be emphasized, with the focus on more advanced program development. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>274</td>
<td>DISTANCE RUNNING FOR INDIVIDUAL SUCCESS</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the key ingredients of successful distance running and their application to lifelong fitness. The class will prepare students for competitive distance running: 10K - 1/2 marathon distances. Repeatable 3 times. Transfer: CSU.</td>
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<tr>
<td>281</td>
<td>BADMINTON</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents an opportunity to develop one's knowledge and skills in the sport of golf. Instruction emphasizes rules, strategy, etiquette and technique. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>283</td>
<td>GOLF</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td><strong>Prerequisite:</strong> PEACT 83. Emphasizes skill techniques, strategy of singles and doubles, rule interpretation, and court etiquette of badminton. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
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<tr>
<td>285</td>
<td>TENNIS</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td><strong>Advisory:</strong> Meet the objectives of the preceding skill level before enrolling in the advanced levels. Beginning Tennis: Introduces the basic skills and strokes used in controlling play, rules, and etiquette of the game. Intermediate Tennis: Reviews basic ground strokes, improves serving technique, introduces advanced skills and starts on basic strategy patterns. Advanced Tennis: Presents individual instruction to develop player's own personal stroke pattern and refine skills in a competitive atmosphere. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>288</td>
<td>BODY BOOTCAMP</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the fundamentals and techniques of total body fitness including cardiovascular fitness, strength, agility, and flexibility training. Students will learn proper techniques and exercise progression in a predominantly outdoor environment. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>291</td>
<td>BASEBALL</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the skills, drills, theory and practice of advanced baseball. Presents individual and team instruction to develop player's own personal skills in a competitive atmosphere. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
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<tr>
<td>292</td>
<td>BASKETBALL</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the theory, practice, history, and fundamentals of volleyball. Includes offensive and defensive aspects of the game. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
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<tr>
<td>295</td>
<td>SOCCER</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the skills, drills, theory and practice of advanced baseball. Presents individual and team instruction to develop player's own personal skills in a competitive atmosphere. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>297</td>
<td>VOLLEYBALL</td>
<td>1.0 to 0.5</td>
<td>3.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Presents the theory, practice, history, and fundamentals of volleyball. Includes offensive and defensive aspects of the game. Repeatable 3 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>193</td>
<td>PHYSICAL EDUCATION ATHLETICS SPECIAL TOPIC</td>
<td>4.0 to 0.5</td>
<td>10.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td>Examines a special topic in the field of study related to the discipline offering this course. Repeatable 2 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
<tr>
<td>225</td>
<td>INTERCOLLEGIATE BASEBALL: MEN</td>
<td>3.0 to 1.5</td>
<td>10.0 hours</td>
<td>Laboratory per week</td>
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<td><strong>Associate Degree Applicable</strong></td>
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<td><strong>Prerequisite:</strong> Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor. Develops advanced knowledge and skills in the sport of baseball. Appropriate for students desiring the physical, mental, and emotional challenges inherent in intercollegiate baseball competition. Repeatable 2 times. Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).</td>
</tr>
</tbody>
</table>
226 INTERCOLLEGIATE BASKETBALL: MEN (3.0 to 1.5)
(Formerly PEATH 26)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Considers broad aspects of intercollegiate basketball competition with emphasis on offensive and defensive floor strategies. Attention is given to physical conditioning necessary for engaging in competitive sports and the responsibilities required of a player who participates in a team activity.
Repeatable 3 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

227 INTERCOLLEGIATE BASKETBALL: WOMEN (3.0 to 1.5)
(Formerly PEATH 27)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Considers broad aspects of intercollegiate basketball. Emphasizes offensive and defensive floor strategies, the physical conditioning necessary for engaging in competitive sports, and the responsibilities required of a player who participates in a team activity.
Repeatable 3 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

228 INTERCOLLEGIATE CROSS COUNTRY (3.0 to 1.5)
(Formerly PEATH 28)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Presents the theory and practice of cross country running and includes participation in intercollegiate competition.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

231 INTERCOLLEGIATE SOFTBALL: WOMEN (3.0 to 1.5)
(Formerly PEATH 31)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Develops advanced knowledge and skill in the sport of women's softball. Provides the physical, mental, and emotional challenges inherent in intercollegiate competition.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

232 SWIMMING AND DIVING (3.0 to 1.5)
(Formerly PEATH 32)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
 Presents an opportunity for physically advanced students to further develop knowledge and skill in the sport of swimming and diving. Appropriate for students desiring the physical, mental and emotional challenges that are inherent in competition.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

233 INTERCOLLEGIATE TENNIS (3.0 to 1.5)
(Formerly PEATH 33)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Presents an opportunity for advanced tennis students to further develop a knowledge and skill in the sport. Appropriate for students desiring the physical, mental, and emotional challenge of intercollegiate competition.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

234 INTERCOLLEGIATE TRACK AND FIELD (3.0 to 1.5)
(Formerly PEATH 34)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Presents the theory and practice of track and field athletics. Includes the rules and fundamentals of the track and field events and participation in intercollegiate track meets.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

235 INTERCOLLEGIATE VOLLEYBALL: WOMEN (3.0 to 1.5)
(Formerly PEATH 35)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Presents an opportunity for physically advanced students to further develop a knowledge and skill in the sport of volleyball. This offering is appropriate for students desiring the physical, mental and emotional challenges that are inherent in competition against students representing other colleges.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

236 INTERCOLLEGIATE WATER POLO (3.0 to 1.5)
(Formerly PEATH 36)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Presents an opportunity for physically advanced students to further develop a knowledge and skill in the sport of water polo. This offering is appropriate for students desiring the physical, mental and emotional challenges that are inherent in competition against students representing other colleges.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).

237 INTERCOLLEGIATE WRESTLING (3.0 to 1.5)
(Formerly PEATH 37)
10.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.
Develops knowledge and skill in the sport of wrestling. Emphasizes skill instruction and conditioning techniques that prepare students for intercollegiate competition.
Repeatable 2 times.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, PEAC and PEAT courses).
Provides the student with basic exposure to the care and prevention of activity injuries. Includes general principles in sports medicine and athlete training.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

214 FOUNDATIONS FOR FITNESS
(Formerly PETHRY 14)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Presents the physiological principles and other factors that provide the foundations for the development and maintenance of optimal physical fitness.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

215 THEORY OF BASEBALL
(Formerly PETHRY 15)
2.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Presents all the fundamental phases of defensive and offensive baseball. Lectures, chalkboard discussions, demonstrations, and video studies are included in the course.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

216 THEORY OF TRACK AND FIELD AND CROSS COUNTRY
(Formerly PETHRY 16)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Introduces the basic fundamentals, techniques, rules, regulations and organization of track and field and cross country.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

218 FUNDAMENTALS OF PERSONAL TRAINING AND EXERCISE LEADERSHIP
(Formerly PETHRY 18)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Presents fundamentals of personal training and leading exercise with healthy populations. Students will demonstrate skills in formulating and evaluating risk and fitness assessments, exercise prescriptions and conducting both group and individual training sessions.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

220 WELLNESS: PERSONALIZED FITNESS AND NUTRITION FOR LIFE
(Formerly PETHRY 20)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.

Presents and applies the scientific principles of fitness and nutrition for a well lifestyle. Upon completion of the course, the student will be able to continue applying and implementing the fitness principles, wellness parameters, and nutritional guidelines into their personal lifestyles.

Repeatable 3 times.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

221 WATER SAFETY INSTRUCTOR
(Formerly PETHRY 21)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156 and successful completion of advanced swimming and a health-screening examination.

Provides instruction and practice in American Red Cross life-saving techniques. Reviews Red Cross swimming and life-saving courses. Red Cross certification as a Water Safety Instructor may be earned.

Transfer: CSU; UC (UC credit limit of 8 semester credits total in PETH courses).

222 LIFEGUARD TRAINING
(Formerly PETHRY 22)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
PHILOSOPHY [PHIL]

205 INTRODUCTION TO THE BIBLE (3.0)
(Formerly PHIL 5)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the literature of the Hebrew scriptures and the Christian New Testament through their history, literary conventions, authors, and sources.
Transfer: CSU; UC.

206 INTRODUCTION TO PHILOSOPHY (3.0)
(Formerly PHIL 6)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents the scope, methods, and concepts of major philosophers. Analyzes their philosophies through the reading of selections from original texts.
Transfer: CSU; UC.

208 INTRODUCTION TO LOGIC (3.0)
(Formerly PHIL 8)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents a study of language and its functions, definitions, informal fallacies, inductive reasoning, and the fundamental concepts and techniques of traditional and modern logic.
Transfer: CSU; UC.

209 WORLD RELIGIONS (3.0)
(Formerly PHIL 9)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Presents the history, concepts, and cultures of the world’s major religions. Emphasizes Judaism, Christianity, Islam, Hinduism, and Buddhism. Surveys Jainism, Confucianism, Taoism, Zoroastrianism, Shintoism, and Sikhism.
Transfer: CSU; UC.

212 PHILOSOPHICAL CLASSICS IN THEORY OF REALITY AND OF KNOWLEDGE (3.0)
(Formerly PHIL 12)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Transfer: CSU; UC.

213 PHILOSOPHICAL CLASSICS IN ETHICS AND SOCIAL PHILOSOPHY (3.0)
(Formerly PHIL 13)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 201A.
Studies problems in ethics and social philosophy by critically analyzing a selection of classic texts.
Transfer: CSU; UC.

PHYSICAL SCIENCE [PSCI]

201A PHYSICAL SCIENCE: PHYSICS AND CHEMISTRY (3.0)
(Formerly PHYSCI 1A)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, MATH 123SI or equivalent
Advisory: ENGL 156 or ENGL 165.
Presents a survey of the physical sciences, physics and chemistry. Not open to students who have credit for any college chemistry or physics course.
Transfer: CSU; UC (For UC, no credit if taken after a college level course in Chemistry or Physics).

201AL PHYSICAL SCIENCE LAB (1.0)
(Formerly PHYSCI 1AL)
3.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in PSCI 201A or equivalent
Applies laboratory principles developed in Physical Science: Physics and Chemistry.
Transfer: CSU; UC (For UC, no credit if taken after a college level course in Chemistry or Physics).

201B PHYSICAL SCIENCE: ASTRONOMY AND GEOLOGY (3.0)
(Formerly PHYSCI 1B)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123, MATH 123SI or equivalent
Advisory: ENGL 156 or ENGL 165.
Presents a survey of the physical sciences, astronomy and geology. Not open to students who have credit for any college geology or astronomy course.
Transfer: CSU; UC (For UC, no credit if taken after a college level course in Astronomy or Physics).

PHYSICS [PHYS]

130 TECHNICAL PHYSICS (3.0)
(Formerly PHYS 30)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 124A or equivalent
Corequisite: MATH 124B or equivalent
Presents the basic physics principles of statics and dynamics of particles and rigid bodies, fluids, heat, gases, and waves.
201 INTRODUCTION TO PHYSICS
(Formerly PHYS 10)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: MATH 123 or MATH 123SI
Advisory: ENGL 156 or ENGL 165.
Presents a survey of physical laws and principles involved in classical and modern physics. Not open to students who have credit for PSCI 201A.
Transfer: CSU; UC (For UC, no credit if taken after PHYS 205A, 208A or PSCI 201A).

218 APPLIED PROBLEMS FOR CALCULUS-BASED PHYSICS
(1.0)
1.0 hours lecture per week
Associate Degree Applicable
Corequisite: PHYS 208A or PHYS 208B.
Develops problem-solving skills that directly assist student mastery of concepts presented in PHYS 208 classes.
Repeatable 3 times.
Transfer: CSU.

247 INDEPENDENT STUDIES – PHYSICS
(4.0 to 0.5)
6.0 hours laboratory per week
Associate Degree Applicable
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Physics under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

POLITICAL SCIENCE [POLS]

137 GOVERNMENT/POLITICS INTERNSHIP
(3.0 to 1.0)
(Formerly POLSCI 37)
9.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: POLS 202 and approval of instructor
Provides practical experience in the office of an elected representative, a government agency, or a non-governmental organization. Instructor will coordinate placement.

201 INTRODUCTION TO POLITICAL SCIENCE
(3.0)
(Formerly POLSCI 1)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Surveys the scope, methods and theories of political science with special emphasis on contemporary political issues and problems.
Transfer: CSU; UC.

202 GOVERNMENT AND POLITICS OF THE UNITED STATES
(3.0)
(Formerly POLSCI 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents an introduction to the institutions, operation, and policy outputs of the American political system at the national, state, and local levels. The structures and functions of American government will be explored in the context of their historical development and their relation to political power and interest today.
Transfer: CSU; UC.

204 WORLD POLITICS
(3.0)
(Formerly POLSCI 4)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Examines the nature of relations among states. Analyzes the basic forces affecting the formulation of foreign policy and the dynamics of international politics.
Emphasizes contemporary problems affecting the United States of America in relation to other nations of the world.
Transfer: CSU; UC.

205 LAW AND POLITICS
(Formerly POLSCI 5)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 201A.
Introduces the political and constitutional context of major legal controversies, including but not limited to civil rights, civil liberties, presidential versus congressional power, and national versus state and local power.
Transfer: CSU; UC.

206 COMPARATIVE GOVERNMENT
(Formerly POLSCI 6)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Studies and compares constitutional principles, institutions, governments, and political problems of selected foreign countries and regions. Emphasizes current political philosophies, developments, institutions, and practices on a regional basis.
Transfer: CSU; UC.

209 INTRODUCTION TO POLITICAL THEORY
(Formerly POLSCI 9)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: POLS 201 and Eligibility for ENGL 201A.
Surveys the diversity of ideas and concepts in political thought from the ancients to the present, from Plato to contemporary feminism.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: POLITICAL SCIENCE
(2.0 to 0.5)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or practicum experience by an individual student in a selected topic of government under the direction of an instructor.
Transfer: CSU; UC.

PSYCHIATRIC TECHNICIAN [PSYT]

110 INTRODUCTION TO PSYCHIATRIC TECHNICIAN
(6.5)
(Formerly PSYTEC 10)
40.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Admission to the Psychiatric Technician Program
Introduces the psychiatric technician training program. Concepts necessary to practice safely and legally in a forensic mental institution are presented. The effect of culture and its affect on the client and care are presented.
Transfer: CSU; UC.

193 PSYCHIATRIC TECHNICIAN SPECIAL TOPIC
(4.0 to 0.5)
(Formerly PSYTEC 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

207 NURSING SCIENCE
(Formerly PSYTEC 7)
31.0 hours per week: (13.5 hours lecture, 17.5 hours laboratory)
Associate Degree Applicable
Prerequisite: PSYT 110
Presents principles of Mental Health and Physical Health. Principles of Theory and Clinical Skills are applied in the care of patients in Long Term Care and Respite Day Care facilities. Students demonstrate competent skill performance in a simulated clinical setting. Principles of Nursing Process, Standard Nursing Care for a variety of common diseases and care of the elderly are also a focus.
Transfer: CSU.

208 CARE OF THE DEVELOPMENTALLY DISABLED
(Formerly PSYTEC 8)
30.1 hours per week: (11.5 hours lecture, 18.6 hours laboratory)
Associate Degree Applicable
Prerequisite: PSYT 207
Transfer: CSU.

209 PSYCHIATRIC NURSING
(Formerly PSYTEC 9)
31.0 hours per week: (12.5 hours lecture, 18.5 hours laboratory)
Associate Degree Applicable
Prerequisite: PSYT 207
Transfer: CSU.

PSYCHOLOGY [PSYC]

201 INTRODUCTORY PSYCHOLOGY
(Formerly PSYCH 1A)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Introduces the field of psychology through a study of the facts and principles involved in learning, development, motivation, personality adjustment and the physiological and social bases of behavior. Presents basic concepts, vocabulary and methods of psychology. Emphasis is placed on those concepts which relate to an understanding of human behavior.
Transfer: CSU; UC.

202 INTRODUCTION TO BIOLOGICAL PSYCHOLOGY
(Formerly PSYCH 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: PSYC 201.
Presents an analysis of the biological bases of behavior in terms of evolutionary, genetic, anatomical and physiological determinants. Examines heredity, development, sensory processes and the function of the nervous and endocrine systems.
Transfer: CSU; UC.

206 INTRODUCTION TO SOCIAL PSYCHOLOGY
(Formerly PSYCH 6)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: PSYC 201.
Introduces the basic concepts, principles, issues and methods useful in understanding social behavior. Emphasizes social thinking and influence, attitudes, biases, group structure and conflict.
Transfer: CSU; UC.

233 PERSONALITY AND ADJUSTMENT
(Formerly PSYCH 33)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: PSYC 201.
Presents theories in the study of personality. Includes a comparison of healthy and unhealthy developmental patterns. Emphasizes self-management techniques as a means of understanding and changing behavior.
Transfer: CSU; UC.
247 INDEPENDENT STUDIES: PSYCHOLOGY (2.0 to 0.5)
(Formerly PSYCH 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of psychology under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

REAL ESTATE [RE]

147 INDEPENDENT STUDIES: REAL ESTATE (2.0 to 0.5)
(Formerly RE 47)
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Real Estate under the direction of an instructor.
Repeatable 3 times.

160 REAL ESTATE PRINCIPLES (3.0)
(Formerly RE 60)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces basic real estate terminology and provides a general overview of the industry. Covers real estate law, finance, appraisal, construction, escrow, and career opportunities. Meets the Department of Real Estate’s pre-licensing requirements.

162 REAL ESTATE PRACTICES (3.0)
(Formerly RE 62)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: RE 160
Studies the activities of the broker and salesperson in the real estate business. Includes the real estate office, listings, various disclosure forms, evaluation of listings, prospecting, advertising, exchanges, property management and leasing, land utilization and development, public relations, supervision of sales force, and ethics of the real estate business.

163 LEGAL ASPECTS OF REAL ESTATE (3.0)
(Formerly RE 63)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the legal aspects and current laws pertaining to real estate.

164 REAL ESTATE FINANCE (3.0)
(Formerly RE 64)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces principles and practices of real estate finance. Emphasizes financing and techniques employed in originating and servicing home loans.

165 REAL ESTATE APPRAISAL (3.0)
(Formerly RE 65)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: RE 160 and eligibility for ENGL 156 is recommended
Provides an introduction to the appraisal process and the different approaches, methods, and techniques used to determine the value of property. Emphasis is on single-unit residential properties. Fulfills a portion of the California educational requirements for the broker’s examination.

168 REAL ESTATE ECONOMICS (3.0)
(Formerly RE 68)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: Real Estate 160
Advisory: Eligibility for ENGL 156 or equiv.
Presents a basic overview of the factors that influence changes in real estate uses and values. Utilizes economic principles, both macro and micro, to analyze the impact that national, regional, community, and neighborhood trends have on real estate uses and values. Meets a portion of the CA Dept. of RE education pre-licensing requirements.

169 REAL ESTATE PROPERTY MANAGEMENT (3.0)
(Formerly RE 69)
3.0 hours lecture per week
Associate Degree Applicable
Prerequisite: RE 160
Advisory: Eligibility for ENGL 156 or equiv.
Presents a comprehensive introduction into the principles and practices of Real Property Management from the property manager’s perspective. Course covers residential, special housing, retail, office, and industrial property management. Emphasis on practical application of property management principles.

193 REAL ESTATE SPECIAL TOPIC (4.0 to 0.5)
(Formerly RE 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

RECREATION ADMINISTRATION [REC]

203 INTRAMURAL AND RECREATIONAL SPORT PROGRAMMING (3.0)
(Formerly PETH 203)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Prerequisite: Eligibility for ENGL 156
Presents philosophy, foundations, policy and techniques underlying intramurals and recreational sport programming in schools, public, private and commercial recreation settings. Analyzes program design for club, informal, league and tournament formats. Discusses appropriate means for promotion, safety and risk management and participant recognition. Detailed sport program plan created.
Transfer: CSU.

204 RECREATION PROGRAM PLANNING (3.0)
(Formerly PETH 204)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156
Presents a theoretical and practical approach to program planning, organization, implementation, and evaluation of recreation services in public, non-profit, private, and commercial settings. Emphasis on interrelationship of needs and interests of participants with goals and objectives, physical settings and activity content. Includes planning and conducting events under direct supervision of instructor and local agency supervisor.
Transfer: CSU.

206 INTRODUCTION TO THERAPEUTIC RECREATION (3.0)
(Formerly PETH 206)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Introduction to special populations and therapeutic recreation. Concepts of therapeutic recreation will include history, social issues, professional issues, and basic program design adapted to benefit individuals with special needs.
Transfer: CSU.
207 INTRODUCTION TO RECREATION AND LEISURE SERVICES (3.0)
(Formerly PETH 207)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the history, philosophy, principles, organization and direction of recreation and leisure services in the public, voluntary, private and commercial sectors. Emphasizes functions, areas, facilities, clientele and career opportunities available within the profession.
Transfer: CSU.

208 RECREATION LEADERSHIP (3.0)
(Formerly PETH 208)
4.0 hours per week: (2.5 hours lecture, 1.5 hours laboratory)
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Presents the history, the philosophy, and the theory of recreation leadership and the associated techniques used by modern recreation and leisure professionals. Emphasizes leadership styles, characteristics and skills.
Transfer: CSU.

SOCILOGY [SOC]

201A INTRODUCTION TO SOCIOLOGY (3.0)
(Formerly SOC 1A)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: Eligibility for ENGL 156.
Introduces the basic principles of sociology including the study of the structure of human society, and the structure and process of group life.
Transfer: CSU; UC.

201B SOCIAL INSTITUTIONS (3.0)
(Formerly SOC 1B)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: SOC 201A and eligibility for ENGL 156.
Studies the major social institutions (family, economy, religion, education, and politics) including their structures and functions. Considers major works and draws comparisons between our institutions and those of other societies.
Transfer: CSU; UC.

202 SOCIAL PROBLEMS (3.0)
(Formerly SOC 2)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: SOC 201A and eligibility for ENGL 156.
Examines current social problems and the sociological concepts, theories, and methods used in their analysis. Emphasis is on the role of power and ideology in the definition of social problems, the causes and consequences of social problems, and the methods of intervention. Topics include crime, poverty, gender inequality, race/ethnic inequality, and family problems.
Transfer: CSU; UC.

204 INTRODUCTION TO CRIMINOLOGY (3.0)
(Formerly SOC 4)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: SOC 201A and eligibility for ENGL 156.
Introduces the basic principles of criminology including the various theories of criminal behavior and the processing of delinquency and crime including arrest, trial, detention, and release from prison.
Transfer: CSU.

206 RACE AND ETHNIC RELATIONS (3.0)
(Formerly SOC 206)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: English 156.
Introduces students to the sociological analysis of race, ethnicity, and racism, focusing on the US American context. Examines the experiences of racial and ethnic groups. Discusses the patterns of interaction between racial and ethnic groups. Analyzes social and cultural factors that sustain racial and ethnic inequality. Evaluates efforts to achieve racial and ethnic equality.
Transfer: CSU; UC.

208 INTRODUCTION TO WOMEN'S STUDIES (3.0)
(Formerly SOC 8)
3.0 hours lecture per week
Associate Degree Applicable
Advisory: ENGL 156.
Studies the interaction of gender and society. Introduces theories of gender differentiation, stratification, and gender roles. Discusses research methodology and examines current research on gender, both within and outside the United States. Investigates how social and cultural factors (e.g., race, class) have shaped the lives of men and women as well as how they have affected their social and cultural environments. Examines the role and status of U.S. women and men within the larger social structure. Women and men in varying cultural settings will be examined, with an emphasis on how social systems shape the roles of women and affect larger U.S. institutions.
Transfer: CSU; UC.

247 INDEPENDENT STUDIES: SOCIOLOGY (2.0 to 0.5)
(Formerly SOC 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of sociology under the direction of an instructor.
Repeatable 3 times.
Transfer: CSU.

SPANISH [SPAN]

193 SPANISH SPECIAL TOPIC (4.0 to 0.5)
(Formerly SPAN 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

201 ELEMENTARY SPANISH (4.0)
(Formerly SPAN 1)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Presents a topic-based, introductory course in contemporary Spanish with emphasis on listening comprehension, language acquisition, oral interaction, culture-centered reading, and writing basic Spanish. Social and cultural aspects of the Spanish-speaking world are presented along with some of the most essential forms, structures, and vocabulary in the language. Language laboratory practice is required.
Transfer: CSU; UC.

202 SPANISH (4.0)
(Formerly SPAN 2)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Presents a continuation of SPAN 201 with a topic-centered, intensive practice in listening comprehension, language acquisition, oral interaction, and writing development. Selected readings from the Hispanic world include cultural vignettes, prose, and poetry. Language laboratory practice is required.
Transfer: CSU; UC.

203 SPANISH (4.0)
(Formerly SPAN 3)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
204 SPANISH
(Formerly SPAN 4)
5.0 hours per week: (4.0 hours lecture, 1.0 hours laboratory)
Associate Degree Applicable
Prerequisite: SPAN 203 or equivalent
Presents a continuation of SPAN 203 and gives extensive practice in composition, conversation and comprehension. Drawing from authentic sources, the course provides a comprehensive grammar review, extensive oral practice and an introduction to literary concepts. Competency reflects the students' emerging ability to perform both orally and in written form with complicated situations. Language lab practice is required. Lab material is computer-based and includes an interactive CD ROM, digitalized video and extensive on-line resources either created or organized by the instructor.
Transfer: CSU; UC.

210 CONVERSATIONAL SPANISH WITH A FOCUS ON DAILY ACTIVITIES
(Formerly SPAN 10)
2.0 hours lecture per week
Associate Degree Applicable
Prerequisite: SPAN 201 or equivalent
Presents an opportunity to practice and build upon previously acquired Spanish speaking and listening skills. Through topic-based conversations, guided discussions and skills building activities (both controlled and spontaneous), students will continue to develop their oral/aural abilities in Spanish. Course emphasis will include increasing speaking proficiency and adding to awareness of aspects of the diverse Hispanic culture. This course is offered in 9 week modules. The vocabulary component varies in accordance with the topic of the module. The grammar component is common to all modules. This course is taught in Spanish.
Repeatable 3 times.
Transfer: CSU.

247 INDEPENDENT STUDIES: SPANISH
(Formerly SPAN 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Spanish under the direction of an instructor.
Transfer: CSU.

703 ENGLISH FOR BASIC COMPUTER SKILLS
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Advisory: Completion of ESL 701 (Beginning Literacy)
Focuses on basic language skills associated with computers, computer vocabulary and procedures used in the automated office environment.
Repeatable.

704 ENGLISH FOR BASIC OFFICE SKILLS
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Advisory: Completion of ESL 701 and VESL 703 or equivalent.
Focuses on language skills, computer vocabulary and terminology used in the automated office environment. Additional focus will be on knowledge and procedures for responding to computer messages and problem-solving.
Repeatable.

713 COMMUNICATION SKILLS FOR CUSTOMER SERVICE
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Advisory: Completion of ESL 703 (Beginning High) or VESL 702, or equivalent language skills.
Presents verbal communication skills for customer service needed in job settings such as hospitality, janitorial, landscaping and housekeeping positions. Students learn to handle customers, engage in small talk with co-workers, discuss work performance with supervisors and, in general, be able to participate in conversations in a variety of work situations.
Repeatable.

715 COMMUNICATION SKILLS FOR WORKPLACE
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Focuses on the basic verbal communication skills and cultural knowledge needed in job readiness and job search in the United States.
Repeatable.

WELDING [WELD]

175 BLUEPRINT READING AND MATERIALS PROCESSING
3.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
(Formerly WELD 75)
Associate Degree Applicable
Prerequisite: WELD 270A, and completion of or concurrent enrollment in WELD 270B.
Advisory: MATH 123.
Provides students with instruction and experience with structural, architectural and shop blueprints commonly utilized in the welding industry. Interpretation, drawing, and application of skills will be applied to determining job cost, material acquisition and project construction.
Repeatable 1 time.

176 WELDING POWER
3.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
(Formerly WELD 76)
Associate Degree Applicable
Applies principles of selection, maintenance, diagnostics and repair of various welding power supplies and external drive mechanisms. Includes instruction and hands on experiences in electrical principles as they pertain to machine selection, installation, operation and maintenance. Manual, semiautomatic and automatic equipment will be included as focus topics for this course.
Repeatable 1 time.

193 WELDING TECHNOLOGY SPECIAL TOPIC
4.0 to 0.5 hours per week
(Formerly WELD 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

195 TECHNICAL CAREER PREPARATION IN WELDING
1.0 hours lecture per week
(Formerly WELD 95)
Associate Degree Applicable
Overview of welding careers with focus on preparing for the job market.
Includes discussion of career opportunities in welding, both union and non-union. Focus on providing the tools necessary to target and obtain a position in the welding industry. Repeatable 2 times.

247 INDEPENDENT STUDIES: METALS TECHNOLOGY
(Formerly WELD 47)
6.0 hours laboratory per week
Associate Degree Applicable
Prerequisite: The student must have completed preparatory course work in the technical field in which the study is to be undertaken.
Provides an opportunity for in-depth study or practicum experience by an individual student in a selected topic in the Welding Technology area with support and direction from an instructor. Repeatable 3 times.
Transfer: CSU.

270A BASIC WELDING
(Formerly WELD 70A)
6.0 hours per week: (2.0 hours lecture 4.0 hours laboratory)
Associate Degree Applicable
Provides for basic instruction in oxyacetylene and shielded metal arc welding. Begins with the fundamentals and quickly progresses through intermediate skills for welding steel. Includes information on cutting, braze welding, metal-lurgy, vertical arc welding and non-ferrous welding. An emphasis is placed on developing good manipulative welding skills for joining steel in the flat and horizontal positions. Repeatable 1 time.
Transfer: CSU.

270B ADVANCED WELDING
(Formerly WELD 70B)
6.0 hours per week: (2.0 hours lecture 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: WELD 270A
Continues WELD 270A with emphasis placed on vertical and overhead welding with the shielded metal arc processes. Includes instruction on air carbon arc gouging, flux core arc welding, and development of welding procedures and techniques.
Transfer: CSU.

270C WELDING: GMAW & GTAW
(Formerly WELD 70C)
6.0 hours per week: (2.0 hours lecture 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: WELD 270A
Presents advanced welding with Gas Tungsten Arc (Heliarc) Welding, Gas Metal Arc (Wire Feed) Welding and Flux Core Arc Welding processes on ferrous and non-ferrous materials. Repeatable 2 times.
Transfer: CSU.

273 METALLURGY
(Formerly WELD 73)
5.0 hours per week: (2.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Emphasizes the mechanical and physical properties of ferrous and non-ferrous metals. Includes preparation and inspection of metal samples and manufacturing and forming processes.
Transfer: CSU.

277 METAL FABRICATION
(Formerly WELD 77)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: WELD 270A
Provides an opportunity to design and construct major projects from metal. Manufacturing processes and production techniques are included in planning and developing projects. Repeatable 1 time.
Transfer: CSU.

278A STRUCTURAL STEEL WELDING CERTIFICATION
(Formerly WELD 280)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in WELD 270B
Continues WELD 270B. Prepares the student to meet industry standards in shielded metal arc welding on plate steel. Includes performance and procedure qualification, workmanship, techniques, inspection. Provides opportunity for certification to the American Welding Society D1.1 Structural Welding Code. Repeatable 1 time.
Transfer: CSU.

280B PIPE WELDING CERTIFICATION
(Formerly WELD 580)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Associate Degree Applicable
Prerequisite: Completion of or concurrent enrollment in WELD 270B
Continues WELD 270B. Prepares the student to meet industry standards in shielded metal arc welding on plate steel. Includes performance and procedure qualification, workmanship, techniques, inspection. Provides opportunity for certification to the American Welding Society D1.1 Structural Welding Code.

570A BASIC WELDING
(Formerly WELD 570A)
6.0 hours per week: (2.0 hours lecture, 4.0 hours laboratory)
Provides for basic instruction in oxyacetylene and shielded metal arc welding. Begins with the fundamentals and quickly progresses through intermediate skills for welding steel. Includes information on cutting, braze welding, metal-lurgy, vertical arc welding and non-ferrous welding. An emphasis is placed on developing good manipulative welding skills for joining steel in the flat and horizontal positions.
Repeatable.

570B ADVANCED WELDING
(Formerly WELD 570B)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Prerequisite: WELD 270B, WELD 570A or consent of instructor
Continues WELD 70A with emphasis placed on vertical and overhead welding with the shielded metal arc processes. Includes instruction on air carbon arc gouging, flux core arc welding, and development of welding procedures and techniques.
Repeatable.

570C WELDING: GMAW & GTAW
(Formerly WELD 570C)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Prerequisite: WELD 270A, WELD 570A or consent of instructor
Continues WELD 270A with emphasis placed on vertical and overhead welding with the shielded metal arc processes. Includes instruction on air carbon arc gouging, flux core arc welding, and development of welding procedures and techniques.
Repeatable.

578 WELDING CERTIFICATION
(Formerly WELD 580)
8.0 hours per week: (2.0 hours lecture, 6.0 hours laboratory)
Prerequisite: Completion of or concurrent enrollment in WELD 270B or WELD 570B or consent of instructor
Continues WELD 270B. Prepares the student to meet industry standards in shielded metal arc welding on plate steel. Includes performance and procedure qualification, workmanship, techniques, inspection. Provides opportunity for certification to the American Welding Society D1.1 Structural Welding Code.
Repeatable.
001 ADAPTED AQUATICS  (0.0)
(Formerly WELL 101)
3.0 hours laboratory per week
Provides an individualized aquatic exercise program for students with a disability. Improves flexibility, strength, and endurance using the water as a source of buoyancy and resistance.
Repeatable.

WORK EXPERIENCE [WEXP]

001 COMPUTER SKILLS FOR WORKPLACE READINESS A  (1.0)
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Introduces Windows operating system, internet search, email usage, word processing, keyboarding skills, and basic business correspondence formatting techniques. Designed to provide the student with the basic computer literacy and proficiency necessary to complete a basic job search portfolio and computer-based communication.
Repeatable 3 times.

002 COMPUTER SKILLS FOR WORKPLACE READINESS B  (1.0)
2.0 hours per week: (0.5 hours lecture, 1.5 hours laboratory)
Associate Degree Non-Applicable
Introduces intermediate computer literacy concepts of Windows operating system, Internet search, email usage, word processing, and keyboarding skills; and basic business correspondence formatting techniques. Designed to provide the student with the skills necessary to create a professional-looking job search portfolio, conduct an extensive job search, and perform basic computer tasks in the workplace.
Repeatable 3 times.

004 JOB SEARCH BASICS A: EXPLORING CAREER/ VOCATIONAL OPTIONS  (2.0)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Non-Applicable
Explores career and vocational training options fundamentals for finding and applying for employment, including researching jobs, using networking, preparing a job portfolio and applying basic interview skills. Students also assess and apply for employment, including researching jobs, using networking, preparing a job portfolio, and applying basic computer tasks in the workplace. This course is recommended for students who are actively seeking employment and interested in updating their job search skills and those completing CalWORKs Job Club, assigned by the Department of Rehabilitation, or other agencies. Repeatable 3 times.

005 JOB SEARCH BASICS B: EXPLORING CAREER/ VOCATIONAL OPTIONS  (2.0)
4.0 hours per week: (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Non-Applicable
Explore advanced career, educational, and vocational training options and fundamentals for developing a career, including researching jobs, preparing a digital job portfolio, developing a social networking presence, and applying interview skills to a variety of job interview situations from informational interviews, group interviews, and second interviews. Students also participate in team and individual projects relating to the areas of time management, stress management, self-esteem, goal setting, conflict resolution, and writing effective correspondence. This course is recommended for students who are actively seeking employment and interested in updating their job search skills and those completing CalWORKs Job Club, assigned by the Department of Rehabilitation, or other agencies. Repeatable 3 times.

012 LIFE SKILLS FOR SUCCESS A: WHO AM I?  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to personal identity, values and goals, and self-esteem and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

013 LIFE SKILLS FOR SUCCESS B: HOW DO I DECIDE?  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to decision-making, dealing with change, time and energy management through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

014 LIFE SKILLS FOR SUCCESS C: HOW MUCH DO I NEED?  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
 Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to financial literacy, personal budgeting and planning, and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

015 LIFE SKILLS FOR SUCCESS D: STAYING HEALTHY  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to establishing a healthy lifestyle in the areas of physical, mental and sexual health, and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

016 LIFE SKILLS FOR SUCCESS E: FINDING YOUR FUTURE  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to planning one’s future including identifying career interests and motivation, career paths, related educational opportunities, job market trends, basic elements of a job search portfolio; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

017 LIFE SKILLS FOR SUCCESS F: COMMUNITY LIVING A  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to getting along in the community such as housing, transportation, and public services; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

018 LIFE SKILLS FOR SUCCESS G: COMMUNITY LIVING B  (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school
and the community. This course focuses on issues related to developing a sense of community and participating in the community; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.

Repeatable 3 times.

019 LIFE SKILLS FOR SUCCESS R: LIVING HEALTHY RELATIONSHIPS (1.0)
1.0 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to building and maintaining healthy relationships; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable 3 times.

093Q LIFE SKILLS FOR SUCCESS Q: COMMUNITY LIVING B (0.5)
0.5 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to getting along in the community such as housing, transportation, and public services; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable.

093P LIFE SKILLS FOR SUCCESS F: COMMUNITY LIVING A (0.5)
0.5 hours lecture per week
Associate Degree Non-Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to getting along in the community such as housing, transportation, and public services; and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.
Repeatable.

151 COOPERATIVE WORK EXPERIENCE EDUCATION - GENERAL (0.5)
(Formerly WRKEEXP 51)
0.5 hours lecture per week
Associate Degree Applicable
Corequisite: WEXP 151L and must be working a minimum of 5 hours per week.
General Work Experience is supervised employment intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The work experience need not be related to the student's educational goals.
Repeatable 3 times.

151L COOPERATIVE WORK EXPERIENCE LAB - GENERAL (2.5 to 0.5)
(Formerly WEXP 51L)
15.0 hours laboratory per week
Associate Degree Applicable
Corequisite: Choose one of the following courses: BUS 170, BUS 171, BUS 172, BUS 173, BUS 174, BUS 175, BUS 176, BUS 177, BUS 178, BUS 179, BUS 180, BUS 181, BUS 182, BUS 183 or WEXP 151 and must be working a minimum of 5 hours per week.
Examines and provides information on work-related topics. Students enrolling in this class must have a job, working a minimum of 5 hours per week. For Summer, students must be enrolled in one other credit course, and be working a minimum of 7.5 hours per week.
Repeatable.

193 WORK EXPERIENCE SPECIAL TOPICS (4.0 to 0.5)
(Formerly WEXP 93)
Associate Degree Applicable
Examines a special topic in the field of study related to the discipline offering this course.

193C COMPUTER SKILLS FOR WORKPLACE READINESS A (1.0)
Associate Degree Applicable
Introduction of fundamentals for workplace readiness and job retention. Students will develop skills related to customer service, workplace attitude, written and oral communication, and ethical behavior; students will also create a resume and complete a job application, and develop qualities sought by employers.
Repeatable.

193D JOB SEARCH BASICS D (2.0)
4.0 hours per week (1.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Explores career and vocational training options and introduces fundamentals for finding and applying for employment, including researching jobs, preparing a job portfolio and applying basic interview skills. Students also assess and learn basic skills in writing, math, critical thinking and decision-making as well as in workplace readiness that are needed in the workplace. This course is recommended for students completing CalWORKs Job Club or who are actively seeking employment.
Repeatable.

193G JOB SEARCH BASICS A: FINDING THE RIGHT JOB (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Introduces fundamentals for finding and applying for employment. Topics include locating and researching employers, analyzing job descriptions, compiling work history and assessing career interests. This course is recommended for students actively seeking employment, in particular career-oriented employment.
Repeatable.

193H JOB SEARCH BASICS B: DEVELOPING A WINNING PORTFOLIO (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Introduces fundamentals for finding and applying for employment. Topics focus on preparing a job search portfolio, including an application, resume, and
job search-related letters. This course is recommended for students actively seeking employment, in particular career-oriented employment.

Repeatable.

193I JOB SEARCH BASICS C: ACING THE INTERVIEW (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Introduces fundamentals for finding and applying for employment. Topics focus on the interview and dressing for the interview. This course is recommended for students actively seeking employment, in particular career-oriented employment.

Repeatable.

193J JOB SEARCH BASICS C: ACING THE INTERVIEW (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Introduces fundamentals for advancing one's career. Topics include strategies for job promotion, and preparing an application, resume, cover letter, and the interview. This course is recommended for students seeking career advancement.

Repeatable.

193K LIFE SKILLS FOR SUCCESS A: WHO AM I? (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to personal identity, values and goals, and self-esteem and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.

Repeatable.

193L LIFE SKILLS FOR SUCCESS B: HOW DO I DECIDE? (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to personal identity, values and goals, and self-esteem and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.

Repeatable.

193M LIFE SKILLS FOR SUCCESS C: HOW MUCH DO I NEED? (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to personal identity, values and goals, and self-esteem and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.

Repeatable.

193N LIFE SKILLS FOR SUCCESS D: STAYING HEALTHY (0.5)
0.5 hours lecture per week
Associate Degree Applicable
Provides individuals with skills to function effectively in the workplace, school and the community. This course focuses on issues related to establishing a healthy lifestyle in the areas of physical, mental and sexual health, and through reality-based readings, discussions and activities fosters the skills needed to live and thrive in our society.

Repeatable.

210 INTRODUCTION TO WORKPLACE READINESS (3.0)
(Formerly WRKEXP 10)
3.0 hours lecture per week
Associate Degree Applicable
Introduction of fundamentals for workplace readiness and job retention. Students will develop skills related to customer service, workplace attitude, written and oral communication, and ethical behavior; students will also create a resume and complete a job application, and develop qualities sought by employers.

Repeatable 3 times.
Transfer: CSU.

211 INTRODUCTION TO WORKPLACE READINESS: VESL (3.0)
(Formerly WRKEXP 11)
8.0 hours per week: (5.0 hours lecture, 3.0 hours laboratory)
Associate Degree Applicable
Introduction of fundamentals for workplace readiness and job retention, as well as basic ESL grammar and vocabulary pertaining to the workplace. Students will learn to develop oral and written communication skills, complete an employment application, interview techniques, build interactive workplace relations, and develop qualities sought by employers.

Repeatable 3 times.
Transfer: CSU.

250 COOPERATIVE WORK EXPERIENCE (0.5)
(Formerly WRKEXP 50)
0.5 hours lecture per week
Associate Degree Applicable
Prerequisite: Spring or Fall semester: maintain a minimum of 7 units including Work Experience and work a minimum of 5 hours per week Summer session: maintain enrollment in one other credit course and work 7.5 hours per week. Approval of Dean or Designee
Corequisite: WEXP 250L
Cooperative Work Experience is a program where working students learn skills, increase performance and explore short and long range career goals on the job. Through collaborative efforts among employers, instructors, and college coordinators students accomplish specific measurable learning objectives and are given laboratory credit for hours worked. Requests for information are coordinated through the Cooperative Education Work Experience program. WEXP 250 and WEXP 250L have a credit limitation of 16 units.

Repeatable 3 times.
Transfer: CSU.

250L COOPERATIVE WORK EXPERIENCE LAB (3.5 to 0.5)
(Formerly WRKEXP 50L)
20.0 hours laboratory per week
Associate Degree Applicable
Corequisite: LDER 255
Cooperative Work Experience Lab examines and provides information on work-related topics. Students enrolling in this class must have a job, working a minimum of 5 hours per week, be enrolled in a minimum of 7 units, including Cooperative Work Experience, and be enrolled in LDER 255. For summer, students must be enrolled in one other credit course, and be working a minimum of 7.5 hours per week.

Repeatable 3 times.
Transfer: CSU.

252 COOPERATIVE WORK EXPERIENCE EDUCATION- OCCIDENTAL (0.5)
(Formerly WRKEXP 52)
0.5 hours lecture per week
Associate Degree Applicable
Corequisite: WEXP 252L and must be working a minimum of 5 hours per week
Cooperative Work Experience is supervised employment, extending classroom learning at an on-the-job learning station, and relating to the student’s educational or occupational goals.

Repeatable 3 times.
Transfer: CSU.

252L COOPERATIVE WORK EXPERIENCE LAB - OCCIDENTAL (3.5 to 0.5)
(Formerly WRKEXP 52L)
20.0 hours laboratory per week
Associate Degree Applicable
Corequisite: Choose one of the following courses: BUS 170, BUS 171, BUS 172, BUS 173, BUS 174, BUS 175, BUS 176, BUS 177, BUS 178, BUS 179, BUS 180, BUS 181, BUS 182, BUS 183 or WEXP 252 and must be working a minimum of 5 hours per week.

Examines and provides information on work-related topics. Students enrolling
in this class must have a job, working a minimum of 5 hours per week. For Summer, students must be enrolled in one other credit course, and be working a minimum of 7.5 hours per week.

Repeatable 3 times.
Transfer: CSU.

510 INTRODUCTION TO WORKPLACE READINESS (0.0)
(Formerly WRKEXP 510)
8.0 hours per week: (5.0 hours lecture, 3.0 hours laboratory)
Introduction of fundamentals for workplace readiness and job retention. Students will learn to develop oral and written communication skills, complete an employment application, interview techniques, build interactive workplace relations, and develop qualities sought by employers.
Repeatable.

511 INTRODUCTION TO WORKPLACE READINESS: VESL (0.0)
(Formerly WRKEXP 511)
8.0 hours per week: (5.0 hours lecture, 3.0 hours laboratory)
Introduction of fundamentals for workplace readiness and job retention, as well as basic ESL grammar and vocabulary pertaining to the workplace. Students will learn to develop oral and written communication skills, complete an employment application, interview techniques, build interactive workplace relations, and develop qualities sought by employers.
Repeatable.