COURSES OF INSTRUCTION

In the following list of courses, the credit value of each course in semester credits is indicated by a number in parentheses after the course title.

Course descriptions followed by the notation (Transfer:…) indicate that the course is transferable to the California State University system, to the University of California system, or both. A student should contact a counselor to determine which courses are applicable to the student’s educational objective.

COURSE NUMBERING

000-099 Non-Degree Applicable and Non-Transferable
100-199 Degree Applicable and Non-Transferable
200-299 Degree Applicable and Transferable
500-599 Non-Credit Courses
700-799 Non-Credit ESL and Vocational ESL Courses

Special Topics (093/193) These are course offerings designed in specific disciplines to test new curriculum before adopting it as a part of an academic program. Course credit values range from 0.5 to 4.0 credits.

Independent Study (047/147/247) These courses are academic opportunities for students who are capable of independent work and demonstrate the need or desire for additional study, beyond the regular curriculum. These courses are not intended to replace existing courses in the discipline. In this course, students will have a written contract with their instructor for activities such as: preparing problem analysis, engaging in primary research, preparing reports, and meeting with the instructor at specific intervals.

PREREQUISITE, COREQUISITE, ADVISORIES AND LIMITATIONS ON ENROLLMENT

The San Luis Obispo Community College District has adopted a policy in order to provide for the establishing, reviewing and challenging of prerequisites, corequisites, and advisories.

Definitions:

Prerequisite means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Courses used to satisfy a prerequisite must be completed with a grade of “C” or better.

Corequisite means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course.

Advisory means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Limitations on Enrollment means a condition of enrollment which may include the following:

a. Auditions or tryouts for courses which include public performance and intercollegiate competition, such as a band, orchestra, theater, chorus, and intercollegiate athletics.

Repeatable Courses

A repeatable course is identified in the college catalog and online Class Finder as repeatable more than one time.

A non-repeatable course is a course in the college catalog that is not identified as repeatable.

COURSE FAMILY REPEATS (see chart on page 207)

Enrollment in active participatory courses in physical education, visual arts, or performing arts that are related in content (courses where individual study or group assignments are the means by which learning objectives are obtained) is limited to no more than four times maximum. This limitation applies even if a student receives a substandard grade or “W” during one or more of such a course or petitions for repetition due to extenuating circumstances.

Cuesta identifies the following active participatory course families where enrollment is limited to a maximum of four (4) times within the repeat family group under the following conditions:

- Equivalent courses are counted in the four (4) enrollment maximum.

Example: KINA 246 was formerly PEAC 286 (Yoga) so past earned grades and “W” for PEAC 286 count toward overall 4 enrollment maximum.

- A course that is completed with a passing grade of “C” or higher may not be repeated within the family group.

- A course where a substandard grade or “W” grade is earned may be repeated to earn a passing grade.

  - A student will be blocked from enrolling for a third (3rd) attempt for a single course within a family repeat group if two (2) prior substandard grades are earned. The student will need to submit a Third Enrollment Agreement to be released to enroll for a third (3rd) attempt in the same course.

  - Substandard Grade - a grade of “D+,” “D,” “D-,” “F,” “FW,” “NP,” or “NC.”

- A maximum of three (3) “W” symbols may be earned for a course. A student will be blocked from registering for a course where three prior “W” symbols have been earned for a single course within a family repeat group.

- In-progress courses without a final grade are counted in enrollment of family repeat group.

COURSE STUDENT LEARNING OUTCOMES

Course Student Learning Outcomes can be accessed on the Cuesta CurricUNET site on the course outline of record (click on the WR icon) at the following link:

http://www.curricunet.com/Cuesta/search/course/
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COURSE MATERIAL FEES

Credit and non-credit courses with mandatory material fees are identified in the college catalog, class schedule, and class finder. Material fees are charged at the time of registration. Materials fees for classes dropped prior to the start of the term are automatically credited or reversed to student accounts. See the Cashier's Office for help with materials fees for classes dropped within the two-week drop deadlines.

CUESTA COLLEGE
COURSE MATERIAL FEES

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ACSK 004  ADAPTED STUDIES: LECTURE  1.00 to 2.00
1.00 - 2.00 hours per week; (1.00 - 2.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only

Presents 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.
Click for Course Student Learning Outcomes

ACSK 019  INTRODUCTION TO COMPUTERS USING ASSISTIVE TECHNOLOGY  3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

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.
Click for Course Student Learning Outcomes

ACSK 022  INTRODUCTION TO THE INTERNET USING ASSISTIVE TECHNOLOGY  3.00
5.00 hours per week; (2.00 lecture hours/3.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

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.
Click for Course Student Learning Outcomes

ACSK 025  COMPUTER ACCESS:ADAPTED WORD PROCESSING I  2.00
3.00 hours per week; (1.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: 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.
Click for Course Student Learning Outcomes

ACSK 031  COMPUTER ACCESS: APPLICATIONS  2.00
3.00 hours per week; (1.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: MATH 003, ENGL 099, and 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.
Click for Course Student Learning Outcomes

ACSK 032  READING COMPREHENSION  1.00 to 2.00
1.00 - 2.00 hours per week; (1.00 - 2.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

Designed for students who have difficulty understanding and remembering what they read. Includes progressive instruction in sentence, paragraph, essay, and textbook chapter comprehension. An appointment with a Disabled Student Programs and Services faculty member prior to enrollment is strongly advised.
Click for Course Student Learning Outcomes

ACSK 047  INDEPENDENT STUDIES: ACADEMIC SKILLS  0.50 to 2.00
1.50 - 6.00 hours per week; (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 learning skills under the direction of an instructor. An appointment with a Disabled Student Programs and Services faculty member is strongly advised.
Click for Course Student Learning Outcomes

ACSK 050  WRITING FUNDAMENTALS  3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: For speakers of languages other than English, completion of the English as a Second Language (ESL) sequence is highly recommended.

Focuses on the grammar, punctuation, sentence writing, and paragraph writing skills students need to succeed in basic English courses. Provides intensive practice, multi-sensory instruction, and individualized assistance to promote the written language development of students with diverse needs and backgrounds, including students with learning disabilities and speakers of other languages. Offered as a prerequisite to the basic English writing course for students who do not receive a qualifying score on the Assessment test or equivalent.
Click for Course Student Learning Outcomes

ACSK 075  ARITHMETIC FUNDAMENTALS  4.00
4.00 hours per week; (4.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

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.
Click for Course Student Learning Outcomes

ACSK 193  ACADEMIC SKILLS SPECIAL TOPIC  0.50 to 4.00
0.00 - 4.00 hours per week; (0.00 - 4.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Examines a special topic in the field of study related to the
discipline offering this course.
Click for Course Student Learning Outcomes

ACSK 247 INDEPENDENT STUDIES: ACADEMIC SKILLS 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Advisories: ENGL 196
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.
Transfer: CSU
Click for Course Student Learning Outcomes

ACSK 500 GED TEST PREPARATION 0
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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-solving in pairs and small groups. The course is repeatable.
Repeatable.
Click for Course Student Learning Outcomes

ANTH 201 PHYSICAL ANTHROPOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

ANTH 202 ARCHAEOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Corequisites: ANTH 201
Presents a continuation of ANTH 201 through vocabulary development, grammar, non-manual behaviors and finger-spelling. Heightens sensitivity to Deaf culture, including its history, values, traditions and communication customs.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ANTH 203 CULTURAL ANTHROPOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents an anthropological study of culture. Cultural anthropologists study and compare human cultures throughout time. Students are introduced to how anthropologists do their work, utilize research ethics and study humans around the globe.
Transfer: CSU; UC
C-ID ANTH 120
Click for Course Student Learning Outcomes
### ARCHITECTURE

**ARCH 180 ArchitecTural Portfolio Design Workshop**

(Formerly ARCH 193B)

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*1.10 hours per week: (0.22 lecture hours/0.88 lab hours)*  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: ARCH 221 and ARCH 232 or comparable experience with Adobe Photoshop  
Advisories: ARCH 222  

Presents principles, concepts, methods, and skills pertaining to the design and preparation of architectural portfolios and presentations, with particular emphasis on using Adobe InDesign software for page layout and document production.  
Click for Course Student Learning Outcomes

**ARCH 193 Architecture Special Topic**

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*0.00 - 0.00 hours per week: (0.00 lecture hours)*  
Credit - Degree Applicable  
Letter Grade or P/NP  

Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes

**ARCH 193B ArchitecTural Portfolio Design Workshop**

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*1.10 hours per week: (0.22 lecture hours/0.88 lab hours)*  
Credit - Degree Applicable  
P/NP Only  
Prerequisites: ARCH 221 with a minimum grade of C or better and ARCH 232 or comparable experience with Adobe Photoshop  

Presents principles, concepts, methods, and skills pertaining to the design and preparation of architectural portfolios and presentations, with particular emphasis on using Adobe InDesign software for page layout and document production.  
Click for Course Student Learning Outcomes

**ARCH 195 Technical Career Preparation in Architecture**

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*1.00 hours per week: (1.00 lecture hours/0.00 lab hours)*  
Credit - Degree Applicable  
Letter Grade Only  

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.  
Click for Course Student Learning Outcomes

**ARCH 201 Introduction to Architecture and Environmental Design**

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*2.00 hours per week: (2.00 lecture hours/0.00 lab hours)*  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: ENGL 201A  

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 credits between ARCH 201, 213, 221, 222, 251 and 252)  
Click for Course Student Learning Outcomes

**ARCH 205 ArchitecTural Model Making**

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*4.00 hours per week: (1.00 lecture hours/3.00 lab hours)*  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: ARCH 221 and C THC 250  
Advisories: 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes
ARCH 221 DESIGN AND VISUAL COMMUNICATION I 4.00
8.00 hours per week: (2.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Prerequisites: ARCH 221 and Completion of or concurrent enrollment in ARCH 232

Presents principles, concepts, methods and skills pertaining to freehand and drafted 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 basic color theory principles, concepts and application; basic physical model building concepts and skills; shadow casting principles, conventions and techniques for orthographic, axonometric, oblique and perspective drawing systems.

Transfer: CSU; UC (For UC, maximum credit of 18 credits between ARCH 201, 213, 221, 222, 251 and 252)

Click for Course Student Learning Outcomes

ARCH 222 DESIGN AND VISUAL COMMUNICATION II 4.00
8.00 hours per week: (2.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Prerequisites: ARCH 221 and Completion of or concurrent enrollment in ARCH 232

Continuation and extension of the content and issues introduced in ARCH 211, 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.

Transfer: CSU; UC (For UC, maximum credit of 18 credits between ARCH 201, 213, 221, 222, 251 and 252)

Click for Course Student Learning Outcomes

ARCH 232 ARCHITECTURAL DESIGN & PRESENTATION COMPUTER GRAPHICS 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ARCH 221

Introduces computer design and presentation skills for architecture students including image editing, page layout, and 3D modeling.

Transfer: CSU

Click for Course Student Learning Outcomes

ARCH 242 INTRODUCTION TO ARCHITECTURAL PRACTICE 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only

Prerequisites: CTCH 250 and ARCH 221 and completion of or concurrent enrollment in ARCH 230

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.

Transfer: CSU

Click for Course Student Learning Outcomes

ARCH 244 ARCHITECTURAL ENVIRONMENT CONTROL SYSTEMS 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: PHYS 205B
Advisories: Completion of or concurrent enrollment in ARCH 252

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).

Transfer: CSU

Click for Course Student Learning Outcomes

ARCH 245 INTRODUCTION TO GREEN BUILDING AND LEED GREEN ASSOCIATE CREDENTIAL PREPARATION 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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&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.

Transfer: CSU

Click for Course Student Learning Outcomes

ARCH 246 GREEN BUILDING AND LEED AP BD+C EXPERIENCE 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Prerequisites: ARCH 245 and LEED Green Associate Credential Prep or equivalent professional experience

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+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.

Transfer: CSU

Click for Course Student Learning Outcomes

ARCH 247 INDEPENDENT STUDIES: ARCHITECTURE 0.50 to 2.00
0.00 - 2.00 hours per week: (0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Prerequisites: 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 193  ART SPECIAL TOPIC  0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

ART 200  ART APPRECIATION  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156.
Examines works of art through the study of terminology, themes, design principles, media and techniques, and provides a general introduction to the visual arts across time and diverse cultures through the use of various art historical methodologies.
Transfer: CSU; UC
C-ID ARTH 100
Click for Course Student Learning Outcomes

ART 202  INTRODUCTION TO MUSEUM PRACTICES  3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A and ART 203 or ART 204 or ART 205 or ART 206
Introduces the history, functions, and professional practices of art museums. Includes development of an art historical exhibition and accompanying texts. Introduces curatorial and art critical writing, including writing art reviews for publication.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 203  SURVEY OF WESTERN ART HISTORY: PREHISTORY THROUGH THE MIDDLE AGES  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A
Provides an overview of western art and architecture from prehistory through the medieval period. Includes cultural and historical background of Prehistoric (Paleolithic and Neolithic periods), Ancient Near Eastern, Egyptian, Aegean, Greek, Roman, and Medieval art traditions.
Transfer: CSU
C-ID ARTH 110
Click for Course Student Learning Outcomes

ART 204  SURVEY OF WESTERN ART HISTORY: RENAISSANCE TO CONTEMPORARY  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A
Provides an overview of art and architecture from the Renaissance to the Contemporary period. Includes cultural and historical issues of the Renaissance, Baroque, Rococo, Neo-Classic, Romantic, Realist, Impressionist, Post-Impressionist and 20th Century periods of art.
Transfer: CSU
C-ID ARTH 120
Click for Course Student Learning Outcomes

ART 205  SURVEY OF ART HISTORY: MODERNISM THROUGH CONTEMPORARY  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A
Provides an overview of the art movements, artists and
issues of Modernism to Contemporary art. This includes art from the mid-nineteenth century, through the twentieth century and contemporary art. Incorporates the social, political, and aesthetic context of the time.

Transfer: CSU; UC  
C-ID ARTH 150

Click for Course Student Learning Outcomes

ART 206 SURVEY OF ART HISTORY: NON-WESTERN ART 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Provides an overview of non-western art and architecture. Includes cultural and historical background of African, Asian, Native American, Pre-Columbian, and other non-Western traditions.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

ART 207 SURVEY OF MEXICAN ART HISTORY I: PRE-COLUMBIAN 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Surveys the arts, architecture, and archaeology of ancient Mesoamerica and South America from 1200 BCE to the conquest/16th century.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

ART 208 SURVEY OF MEXICAN ART HISTORY II: COLONIAL TO CONTEMPORARY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Surveys the arts, architecture, and visual culture of Mexico from the colonial period/16th century to the present.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

ART 209 ART OF AFRICA, OCEANIA, AND INDIGENOUS NORTH AMERICA 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Provides an overview of visual culture, including art and architecture, within select regions in sub-Saharan Africa, Oceania, and indigenous North America.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

ART 210 SURVEY OF ASIAN ART HISTORY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Provides an overview of Asian art and architecture. Includes cultural and historical background of artistic traditions of India, Southeast Asia, China, Korea, and Japan from prehistoric to modern times.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

ART 220 FUNDAMENTALS OF 2-D DESIGN 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Introduces the design elements and principles common to all visual art forms including line, shape, value, texture, color, and space. Develops visual vocabulary for artistic expression through lecture presentations, creative problem solving, and studio projects.

Transfer: CSU; UC  
C-ID ARTS 100

Click for Course Student Learning Outcomes

ART 221 DRAWING I 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Introduces the practice and theories of drawing, including the visual elements and principles. Employs a wide range of subject matter and drawing media. Focuses on perceptually based drawing, observational skills, techniques, and creative responses to materials and subject matter. Presents an overview of the art of drawing in an historical and contemporary context.

Transfer: CSU; UC  
C-ID ARTS 110

Click for Course Student Learning Outcomes

ART 222 DRAWING II 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: ART 221

Explores artistic concepts, styles, and creative expression related to intermediate-level drawing. Focuses on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students will incorporate personal approaches to content and materials in drawing projects covering both historical and contemporary methods.

Transfer: CSU; UC  
C-ID ARTS 205

Click for Course Student Learning Outcomes

ART 223 FIGURE DRAWING I 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: ART 221

Introduces drawing the human figure from observation of live models. Presents a wide variety of drawing media and techniques. Topics include an introduction to human anatomy, the historical and contemporary roles of figure drawing in the visual arts, and expressive, interpretive approaches to drawing the figure.

Transfer: CSU; UC  
C-ID ARTS 200

Click for Course Student Learning Outcomes
ART 224  FIGURE DRAWING II  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 223
Continues ART 223 with an emphasis on personal interpretation and the development of content. Focuses on the figure in context and in finished compositions.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 229  COLOR  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 220
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.
Transfer: CSU; UC
C-ID ARTS 270
Click for Course Student Learning Outcomes

ART 230  PAINTING I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 220 and ART 221
Introduces oil and acrylic painting techniques, methods, materials and language. Explores processes, color theory and paint mixing, brushwork and composition, as well as creative responses to materials and subject matter.
Transfer: CSU; UC
C-ID ARTS 210
Click for Course Student Learning Outcomes

ART 231  PAINTING II  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 230
Presents a continuation of ART 230 with an emphasis on contemporary issues in painting. Composition and content are also stressed.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 232  WATERCOLOR I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 220 and ART 221
Introduces basic watercolor techniques, methods and materials, explores historical and cultural context and the creative use of aqueous media in painting on paper.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 233  WATERCOLOR II  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 232
Continues ART 232 with an emphasis on problem-solving, composition, historical and cultural context and the development of personal style.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 234  FIGURE PAINTING  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 223 and ART 231
Advisories: ART 224 and ART 231
Introduces the fundamentals of painting from the human figure, the creative use of various painting media, and the figure in context.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 235  MURAL PAINTING  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 220 and ART 221 or ART 230
Introduces mural painting and processes. Includes analyzing a site, developing a design and proposal, the study and application of painting materials, executing a mural in a public space, and working in a collaborative environment. Presents a contemporary and historical view of mural painting. Students may need to travel to mural site.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 240  INTRODUCTION TO PRINT MEDIA  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces a variety of print media including traditional printmaking practices such as relief, etching, lithography and screen print. Includes contemporary print media such as photocopy, computer generated images and artists’ books. Presents the art of printmaking in an historical and contemporary context.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 241A  ETCHING I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 221
Offers instruction and studio practice in beginning etching and drypoint printmaking techniques as well as the designing of images appropriate to these techniques.
Transfer: CSU; UC
Click for Course Student Learning Outcomes
ART 241B ETCHING II 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 241A
Offers instruction and studio practice in intermediate etching techniques as well as the designing of images appropriate to these techniques. Emphasizes contemporary art issues related to etching.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 241C ETCHING III 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 241B
Offers instruction and studio practice in expanded intermediate etching techniques including multiple plate printing and collagraph. Emphasizes contemporary art issues related to etching.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 243 BOOK ARTS 2.00 to 3.00
4.00 - 6.00 hours per week: (1.00 - 2.00 lecture hours/3.00 - 4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 220
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.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 244 PHOTOGRAPHY I 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Introduces the processes, principles, and tools of black and white photography. Topics include the development of technical and aesthetic skills, the elements of design and composition, camera technology, materials and equipment, within an historical and contemporary context. A 35mm film camera is required for class.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 245 PHOTOGRAPHY II 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ART 244
Continues the study of photography as a fine art. Presents intermediate level concepts, processes, principles, and tools of black and white photography. Topics emphasize the development of photographic work as a means of personal expression through content, the elements of design and composition, and technique. Photography will be considered in an historical and contemporary context. A 35mm film camera is required for class.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 249 DIGITAL PHOTOGRAPHY 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces the processes, principles, and tools of digital photography. Topics include the development of technical and aesthetic skills, the elements of design and composition, camera technology, materials and equipment, within an historical and contemporary context.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 250 DIGITAL ART 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 244
Introduction to concepts, practices, and theories of digital art production in a fine arts context. Topics include integration of design, color, and compositional principles with contemporary digital tools and mixed media approaches.
Transfer: CSU; UC
C-ID ARTS 250
Click for Course Student Learning Outcomes

ART 251 ALTERNATIVE PHOTOGRAPHIC PROCESSES 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 244
Explores creative photographic techniques emphasizing experimental manipulation of the photographic image. Introduces silver and non-silver alternative photographic techniques including multiple image usage, high contrast materials, toning, image transfer, and digital negative with emphasis on personal expression, content, and development of style.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 252 PHOTOGRAPHIC LIGHTING 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 253 FOUNDATION OF DIGITAL GRAPHIC ART 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Basic computer skills.
Provides primary instruction in digital vector graphic and illustration using Adobe Illustrator and other Adobe Creative Cloud software. Students will explore visual problem solving and utilize industry standard digital tools to create graphic works for artistic illustration, graphic design and user experience workflow.
Transfer: CSU
Click for Course Student Learning Outcomes
ART 256 FOUNDATION OF DIGITAL IMAGING ART 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Basic computer skills.

Presents primary instruction to enhance digital photographs and compose images using Adobe Photoshop and other Adobe Creative Cloud software. Students will use the latest Adobe Photoshop, Adobe Bridge and Adobe Camera Raw to explore visual problem solving and create images for photography, artistic digital image art, graphic design and user experience workflow.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 258 FOUNDATION OF DIGITAL LAYOUT DESIGN 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Basic computer skills

Presents primary instruction in digital layout design using Adobe InDesign and other layout design software. Topics will cover the basic principles of digital layout design and e-publishing for book, magazine, business document, web and UX design.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 259 FOUNDATION OF WEB AND UX DESIGN 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Presents primary instruction in Web design and user experience (UX) and interactive design using Adobe Dreamweaver, Adobe Muse, Adobe Edge and other App mock-up software. Topics will cover the basic principles of web design and interactive design including the study of content structure, workflow, usability, and testing; HTML5 and CSS3, responsive and dynamic design, WordPress, web hosting and FTP. This course will provide a solid foundation for web design and interactive design projects such as web design, interactive book and app design mock-up.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 265 ADOBE FLASH: ART, DESIGN, AND ANIMATION 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ART 255

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.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 266 GRAPHIC DESIGN I 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ART 256 and/or ART 255

Introduces principles and processes used in the creative and practical exploration of visual communication. Topics may include digital layout, graphics, illustrations, photography, web & UX, animation and video. Projects incorporate symbols and typography into visual design, exploring interrelationships between formal elements and symbolic content.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 267 GRAPHIC DESIGN II 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 266

Presents a continuation of ART 266 with an emphasis on individualized projects. Topics include creation of skilled projects in digital layout, graphics, illustrations, photography, web and UX design, animation and video.
Transfer: CSU
Click for Course Student Learning Outcomes

ART 268 DIGITAL TYPOGRAPHY ART 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ART 255 or ART 265

Introduces principles in the creative use of type in a digital environment. Emphasis is on the use of typography in graphic design art. Topics include the history of type, aesthetic qualities of letterforms, type classification, organization and hierarchy, grid systems and page layout.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 270 FUNDAMENTALS OF 3-D DESIGN 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Introduces the elements and principles of three-dimensional design. Presents a variety of non-objective studio projects using sculptural materials, tools, and methods. Includes the study of historical and contemporary art related to three-dimensional design and spatial composition.
Transfer: CSU; UC
C-ID ARTS 101
Click for Course Student Learning Outcomes

ART 271 SCULPTURE I 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only

Introduces sculptural principles, techniques, and concepts utilizing a wide range of materials and a focus on contemporary practices. Assignments emphasize creative self-expression, the elements and principles of design, and an examination of historical context.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ART 272 SCULPTURE II 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 271

Continues study of concepts and techniques of contempo-
rary sculpture as introduced in ART 271. Presents intermediate level assignments in fabrication and new genres with an emphasis on installation and site-specific public art. Addresses ongoing global, sociopolitical and cultural changes as well as incorporating new materials and technologies as tools for innovative art making.

**Transfer:** CSU
Click for Course Student Learning Outcomes

**ART 274A SCULPTURE FOUNDRY I**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 270 and ART 271
Introduces basic theory and practice in cast bronze sculpture. Projects emphasize creative self-expression using direct modeling of wax, basic mold making, and introduction to non-wax casting materials.

**Transfer:** CSU
Click for Course Student Learning Outcomes

**ART 274B SCULPTURE FOUNDRY II**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 274A
Continues instruction and practice in cast bronze sculpture. Assignments emphasize closed core casting, creative expression, and compositional organization of cast metal sculpture.

**Transfer:** CSU
Click for Course Student Learning Outcomes

**ART 274C SCULPTURE FOUNDRY III**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 274B
Continues instruction and practice in cast bronze sculpture and introduces aluminum casting. Assignments emphasize bronze repair using TIG welding, combining mixed media with cast metal, scale, and original compositional and formal themes.

**Transfer:** CSU
Click for Course Student Learning Outcomes

**ART 280 INTRODUCTION TO CERAMICS**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces ceramics materials, concepts, and processes. Includes design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. Covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes

**ART 281A CERAMICS: WHEEL-THROWING I**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ART 280
Presents the practice of ceramic art with an emphasis on throwing on the potter's wheel. Includes functional vessels and sculptural form derived from wheel-thrown objects and from combining wheel and handbuilt forms.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes

**ART 281B CERAMICS: WHEEL-THROWING II**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 281A
Continues Art 281A with further development and refinement of throwing skills. Projects will include functional vessels and sculptural forms derived from wheel-thrown objects and from combining wheel and handbuilt forms. Development of surface, glazing and firing techniques at an intermediate level. Addresses aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes

**ART 282 CERAMICS: HAND-BUILDING**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 280
Presents the practice of ceramic art with an emphasis on hand-building techniques. Includes functional vessels and sculptural forms, and addresses traditional, historical and contemporary issues. Assignments guide the development of personal and artistic expression.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes

**ART 283 CERAMIC SCULPTURE**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 280
Presents a studio class dealing with issues and techniques of traditional and contemporary ceramic sculpture. Technical processes and materials relevant to ceramic sculpture will be covered. Assignments guide the development of personal and artistic expression.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes

**ART 284 ALTERNATIVE FIRING TECHNIQUES IN CERAMICS**
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ART 280
Presents instruction and experience in alternative firing techniques for ceramic art. Firings will span temperatures and techniques including primitive, low fire, mid-range and high fire.

**Transfer:** CSU; UC
Click for Course Student Learning Outcomes
### ASTRONOMY

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
<th>Units</th>
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<tbody>
<tr>
<td>ASTR 293</td>
<td>Portfolio Presentation</td>
<td>3.00</td>
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<td>(Formerly PEAT 234)</td>
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<td>6.00 hours per week (2.00 lecture hours/4.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Prerequisites: A body of artworks to include a minimum of twelve pieces which have been completed in college studio art courses.</td>
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<td>Advisories: ENGL 156 and ART 256</td>
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<td></td>
<td>Introduces professional presentation techniques in Studio Art and Graphic Design. Topics include the selection, photographing, and mounting of artwork for the production of a physical and a digital portfolio. Covers resume writing, artists statements, and letters of introduction. Examines career opportunities in various art-related fields and investigates four year programs and requirements. This course is geared toward the Studio Art or Graphic Design major near the completion of their studies at Cuesta College.</td>
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<td>Transfer: CSU</td>
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<tr>
<th>Course Code</th>
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<tr>
<td>ASTR 210</td>
<td>Astronomy</td>
<td>3.00</td>
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<td></td>
<td>3.00 hours per week (3.00 lecture hours/0.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<tr>
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<td>Prerequisites: MATH 123 or equivalent</td>
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<td>Advisories: ENGL 201A</td>
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<td>Presents the astronomy of planets, satellites, asteroids, comets, meteors, the sun, stars, and galaxies.</td>
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<td>Transfer: CSU: UC</td>
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<tr>
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<tr>
<td>ASTR 210L</td>
<td>Astronomy Lab</td>
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<td>3.00 hours per week (0.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Prerequisites: ASTR 210</td>
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<td>Corequisites: MATH 123 or equivalent</td>
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<td>Advisories: ENGL 201A</td>
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<td>Presents the principles of measurement, data collection and analysis to the astronomical phenomena of celestial motions and characteristics of planets, stars, galaxies in the planning, execution, and presentation of research projects.</td>
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<td>Transfer: CSU</td>
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<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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<tr>
<td>ASTR 299</td>
<td>Astronomy Research Seminar</td>
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<td></td>
<td>2.00 hours per week (0.67 lecture hours/1.33 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Provides practical experience in one area of astronomical research, and an understanding of the nature of scientific research. Students plan a research project, make observations, analyze results, and write a paper for publication.</td>
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<td>Transfer: CSU</td>
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### ART GALLERY

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<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART 295</td>
<td>Art Gallery</td>
<td>3.00</td>
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<td></td>
<td>6.00 hours per week (2.00 lecture hours/4.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Advisories: ENGL 156</td>
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<td>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.</td>
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<td>Transfer: CSU</td>
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<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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<tbody>
<tr>
<td>ART 299</td>
<td>Independent Studies: Art</td>
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<td>1.50 - 6.00 hours per week (0.00 lecture hours/1.50 - 6.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Prerequisites: 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 a practicum experience by an individual student in a selected topic of Art under the direction of an instructor.</td>
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<td>Transfer: CSU</td>
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### ATHLETICS

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<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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<tbody>
<tr>
<td>ATHL 193</td>
<td>Athletics Special Topic</td>
<td>0.50</td>
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<td>(Formerly PEAT 193)</td>
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<td>0.00 - 0.00 hours per week (0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Examines a special topic in the field of study related to the discipline offering this course.</td>
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<td>Click for Course Student Learning Outcomes</td>
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<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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<tr>
<td>ATHL 206</td>
<td>Intercollegiate Track and Field</td>
<td>1.50</td>
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<td>(Formerly PEAT 234, ATHL 234)</td>
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<td>5.00 - 10.00 hours per week (0.00 - 0.00 lecture hours/5.00 - 10.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>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.</td>
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<td>Repeatable 3 time(s).</td>
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<td>Transfer: CSU: UC</td>
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<td></td>
<td>UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses</td>
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<tr>
<td>ATHL 208</td>
<td>Track &amp; Field</td>
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<td>3.00 hours per week (0.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Provides an introduction to strength and fitness building as well as the fundamentals and techniques of multiple track &amp; field events in preparation for spring competition.</td>
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<td>Repeatable 3 time(s).</td>
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<td>Transfer: CSU: UC</td>
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<td>UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses</td>
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<tr>
<td>ATHL 221</td>
<td>OFF-SEASON TRAINING FOR FALL ATHLETES I</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 222</td>
<td>OFF-SEASON TRAINING FOR FALL ATHLETES II</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 229</td>
<td>OFF-SEASON TRAINING FOR SPRING ATHLETES I</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 230</td>
<td>OFF-SEASON TRAINING FOR SPRING ATHLETES II</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 233</td>
<td>PHYSICAL CONDITIONING FOR FALL ATHLETES</td>
<td>1.00</td>
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<td>ATHL 236</td>
<td>ATHLETES I</td>
<td>0.50 to 2.00</td>
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<td>ATHL 237</td>
<td>ATHLETES II</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 238</td>
<td>ATHLETES III</td>
<td>0.50 to 2.00</td>
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<tr>
<td>ATHL 239</td>
<td>WOMEN'S INTERCOLLEGIATE WATER POLO</td>
<td>1.50 to 3.00</td>
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<td>ATHL 240</td>
<td>MEN'S INTERCOLLEGIATE WATER POLO</td>
<td>1.50 to 3.00</td>
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<tr>
<td>ATHL 241</td>
<td>MEN'S WATER POLO</td>
<td>0.50 to 1.00</td>
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<tr>
<td>ATHL 247</td>
<td>INDEPENDENT STUDIES: ATHLETICS</td>
<td>0.50 to 2.00</td>
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</tbody>
</table>
ATHL 250  INTERCOLLEGIATE CROSS COUNTRY  1.50 to 3.00  
(Formerly PEAT228, ATHL228))  
5.00 - 10.00 hours per week: (0.00 - 0.00 lecture hours/5.00 -10.0 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prepares the theory and practice of cross country running and includes participation in intercollegiate competition.  
Repeatable 3 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 255  WOMEN'S INTERCOLLEGIATE VOLLEYBALL  1.50 to 3.00  
5.00 -10.00 hours per week: (0.00 - 0.00 lecture hours/5.00 -10.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Designs to introduce the advanced skills of volleyball necessary for playing intercollegiate volleyball. Topics covered include basic skill, quick offense, and both offense and defensive team strategies.  
Repeatable 3 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 260  WOMEN'S INTERCOLLEGIATE SOCCER  1.50 to 3.00  
(Formerly PEAT238, ATHL238)  
5.00 -10.00 hours per week: (0.00 - 0.00 lecture hours/5.00 -10.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Develops advanced knowledge and skills in the sport of soccer. Appropriate for students desiring the physical, mental and emotional challenges inherent in intercollegiate soccer competition.  
Repeatable 3 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 265  INTERCOLLEGIATE WRESTLING  1.50 to 3.00  
(Formerly PEAT237)  
5.00 -10.00 hours per week: (0.00 - 0.00 lecture hours/5.00 -10.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Develops knowledge and skill in the sport of wrestling. Emphasizes skill instruction and conditioning techniques that prepare students for intercollegiate competition.  
Repeatable 3 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 270  MEN'S INTERCOLLEGIATE FALL BASKETBALL  0.50 to 3.00  
(Formerly PEAT226, ATHL226)  
1.50 - 9.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the fall intercollegiate basketball pre-season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 271  MEN'S INTERCOLLEGIATE SPRING BASKETBALL  0.50 to 3.00  
1.50 - 9.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the spring intercollegiate basketball season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 275  WOMEN'S INTERCOLLEGIATE FALL BASKETBALL  0.50 to 3.00  
(Formerly PEAT227, ATHL227)  
1.50 - 9.00 hours per week: (0.00 lecture hours/1.50 - 9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the fall intercollegiate basketball pre-season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 276  WOMEN'S INTERCOLLEGIATE SPRING BASKETBALL  0.50 to 3.00  
1.50 - 9.00 hours per week: (0.00 lecture hours/1.50 - 9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the spring intercollegiate basketball season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 277  WOMEN'S INTERCOLLEGIATE FALL BASKETBALL  0.50 to 3.00  
(Formerly PEAT231, ATHL231)  
5.00 -10.00 hours per week: (0.00 - 0.00 lecture hours/5.00 -10.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the fall intercollegiate basketball pre-season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes

ATHL 278  WOMEN'S INTERCOLLEGIATE SPRING BASKETBALL  0.50 to 3.00  
1.50 - 9.00 hours per week: (0.00 lecture hours/1.50 - 9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Considers broad aspects of the spring intercollegiate basketball season 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 time(s).  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD,  
KINA and ATHL courses)  
Click for Course Student Learning Outcomes
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per Week</th>
<th>Credit - Degree Applicable</th>
<th>Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)</th>
<th>Repeatable 3 time(s).</th>
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</thead>
<tbody>
<tr>
<td>ATHL 281</td>
<td>SOFTBALL CONDITIONING</td>
<td>1.00</td>
<td>3.00</td>
<td>Letter Grade Only</td>
<td>(Formerly PEAT225)</td>
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<td></td>
<td>This course is designed to increase the knowledge of softball strategy through conditioning drills.</td>
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<td></td>
<td>Placing skills and strategy to prepare students for athletic competition</td>
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<td></td>
<td>Letter Grade Only</td>
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<td></td>
<td>ATHL 282 FAST PITCH SOFTBALL</td>
<td>1.00</td>
<td>3.00</td>
<td>Letter Grade Only</td>
<td>Provides skills and strategy to prepare students for athletic competition</td>
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<tr>
<td></td>
<td>This class is designed to provide collegiate skills development, technique, conditioning, strategies and team play in the sport of softball.</td>
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<td>Letter Grade Only</td>
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<td></td>
<td>ATHL 285 INTERCOLLEGIATE BASEBALL: MEN</td>
<td>1.50 to 3.00</td>
<td>5.00 - 10.00</td>
<td>Letter Grade or P/NP</td>
<td>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.</td>
<td>Repeatable 3 time(s).</td>
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<td></td>
<td>(Formerly PEAT225, ATHL225)</td>
<td></td>
<td>hours per week</td>
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<td></td>
<td>Credit - Degree Applicable</td>
<td></td>
<td>(0.00 - 0.00 lecture hours/5.00 - 10.00 lab hours)</td>
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<td></td>
<td>Prerequisites: Students must possess advanced intercollegiate athletics skills and knowledge to participate, which will be determined by the instructor.</td>
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<td>Identifies advanced knowledge and skills in the sport of baseball. Appropriate for students desiring the physical, mental, and emotional challenges inherent in intercollegiate baseball competition.</td>
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<td>Letter Grade or P/NP</td>
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<td>Repeatable 3 time(s).</td>
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<td>Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)</td>
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<td></td>
<td>ATHL 286 BASEBALL DEFENSIVE STRATEGIES</td>
<td>1.00</td>
<td>3.00</td>
<td>Letter Grade or P/NP</td>
<td>Designed for the intercollegiate swimming and diving athletes off season training program. Techniques of all four competitive strokes and strategies of how to compete as an individual/team will be incorporated. Fundamentals of all dives on the 1Meter and 3Meter diving board will be incorporated also.</td>
<td>Repeatable 3 time(s).</td>
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<td>3.00 hours per week: (0.00 lecture hours/3.00 lab hours)</td>
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<td>Repeatable 3 time(s).</td>
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<td>Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)</td>
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<td>ATHL 287 BASEBALL OFFENSIVE STRATEGIES</td>
<td>1.00</td>
<td>3.00</td>
<td>Letter Grade or P/NP</td>
<td>Designed for the intercollegiate swimming and diving athletes off season training program. Techniques of all four competitive strokes and strategies of how to compete as an individual/team will be incorporated. Advance fundamentals of all competitive dives on the 1Meter and 3Meter diving board will be incorporated also.</td>
<td>Repeatable 3 time(s).</td>
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<td>3.00 hours per week: (0.00 lecture hours/3.00 lab hours)</td>
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<td>ATHL 288 SKILL AND TRAINING DEVELOPMENT</td>
<td>0.50</td>
<td>1.50</td>
<td>Letter Grade or P/NP</td>
<td>Provides skills and strategy to prepare students for athletic competition.</td>
<td>Repeatable 3 time(s).</td>
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<td>0.50 to 1.00</td>
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<td>Credit - Degree Applicable</td>
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<td>Repeatable 3 time(s).</td>
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</tbody>
</table>
ATHL 299 ADVANCED SKILL AND TRAINING DEVELOPMENT 0.50 to 1.00
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Provides advanced skills and strategy to prepare students for intercollegiate athletic competition. Repeatable 3 times.
Prerequisites: 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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

AUTOMOTIVE TECHNOLOGY

ATCH 109 INTRODUCTION TO AUTOMOTIVE COMPUTERS 2.50
4.00 hours per week: (2.00 lecture hours/2.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Covers the theory, operation, and basic test procedures for on-board computers found on domestic and imported vehicles. Designed for entry level automotive study.
Click for Course Student Learning Outcomes

ATCH 120 AUTOMOTIVE IGNITION SYSTEMS 2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Covers modern vehicle ignition system theory, diagnosis, and repair. Includes IT, EI, and Coil-On-Plug systems.
Click for Course Student Learning Outcomes

ATCH 125 ENGINE PERFORMANCE 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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.
Click for Course Student Learning Outcomes

ATCH 147 INDEPENDENT STUDIES: AUTOMOTIVE TECHNOLOGY 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 automotive technology area with support and direction from an instructor.
Click for Course Student Learning Outcomes

ATCH 152 INTERNAL COMBUSTION ENGINES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
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.
Click for Course Student Learning Outcomes

ATCH 153 ENGINE OVERHAUL PROCEDURES 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ATCH 152
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 64 meets a portion of the requirements for technicians seeking an Emission Basic (EB) or Emission Advanced (EA) Smog Check Technician License.
Click for Course Student Learning Outcomes

ATCH 158 AUTOMOTIVE ELECTRICITY AND ELECTRONICS 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Studying basic electrical theory, transistors and other semiconductors, as well as batteries, charging systems, cranking systems, lighting, vehicle wiring, and accessory systems.
Click for Course Student Learning Outcomes

ATCH 160 AUTOMOTIVE ELECTRICAL ACCESSORIES 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156.
Presents electrical and electronic testing, troubleshooting, and repair procedures on the modern vehicle. Covers body and accessory circuits, power options, instrumentation, and interfacing between engine and body control computers.
Click for Course Student Learning Outcomes

ATCH 164 BASIC AREA CLEAN AIR CAR COURSE 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 64 meets a portion of the requirements for technicians seeking an Emission Basic (EB) or Emission Advanced (EA) Smog Check Technician License.
Click for Course Student Learning Outcomes

ATCH 166 AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR 2.00
3.00 hours per week: (1.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents theory and practical application of safety inspec-
tions, battery service, oil and lubrication, cooling system, ignition system, brake inspection, wheel bearings and minor repairs.

Click for Course Student Learning Outcomes

**ATCH 168  AUTOMOTIVE REPAIR BUSINESS**  3.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

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.

Click for Course Student Learning Outcomes

**ATCH 170  AUTO BODY REPAIR I**  3.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

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 skill necessary for gainful employment in the auto body repair industry.

Click for Course Student Learning Outcomes

**ATCH 171  ADVANCED AUTO BODY**  3.00

- **Credit** - Degree Applicable
- **Letter Grade Only**
- **Prerequisites:** 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.

Click for Course Student Learning Outcomes

**ATCH 175  AUTOMOTIVE PAINTING**  5.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

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 environmental concerns relative to the automotive painting industry. Emphasizes development of the knowledge and manipulative skills necessary for gainful employment in the automotive painting industry.

Click for Course Student Learning Outcomes

**ATCH 177  ADVANCED AUTOMOTIVE PAINTING**  3.00

- **Credit** - Degree Applicable
- **Letter Grade Only**
- **Prerequisites:** ATCH 170 and ATCH 175
- **Advisories:** ENGL 156.

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.

Click for Course Student Learning Outcomes

**ATCH 182  AUTOMATIC TRANSMISSIONS**  4.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

Introduces fundamental operations, rebuilding procedures, and service of torque converters and automotive automatic transmissions. Provides preparation for Automotive Service Excellence Certification.

Click for Course Student Learning Outcomes

**ATCH 186  CHASSIS AND SUSPENSION SYSTEMS**  3.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

Presents suspension geometry and design, wheel alignment, active suspension systems, wheel balancing, tires, and steering systems. Provides training toward Automotive Service Excellence Certification.

Click for Course Student Learning Outcomes

**ATCH 187  AUTOMOTIVE FUEL INJECTION AND TURBOCHARGERS**  3.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

Presents both mechanical and electrical fuel injection systems for automotive gasoline and diesel fuel engines as well as automotive and light truck turbochargers.

Click for Course Student Learning Outcomes

**ATCH 188  AUTOMOTIVE HEATING AND AIR CONDITIONING**  3.00

- **Credit** - Degree Applicable
- **Letter Grade or P/NP**
- **Advisories:** ENGL 156.

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.

Click for Course Student Learning Outcomes

**ATCH 193  AUTOMOTIVE TECHNOLOGY SPECIAL TOPIC**  0.50 to 4.00

- **Credit** - Not Degree Applicable
- **Letter Grade or P/NP**

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

Click for Course Student Learning Outcomes
ATCH 193L NON-STRUCTURAL TECHNICIAN - PROLEVEL 1  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Presents non-structural qualification training for industry certification exams. Course includes instruction in automotive hazardous materials, personal safety, and refinishing safety. Training will also include trim and hardware procedures, automotive foams processes, ascertain automotive movable glass functions, implementation of cosmetic straightening steel methods, plastic repair/refinishing, and corrosion protection relevant to the collision repair industry. Emphasis is placed on developing the knowledge and manipulative skill necessary for introductory skills in the collision repair industry.
Click for Course Student Learning Outcomes

ATCH 195 TECHNICAL CAREER PREPARATION IN AUTOMOTIVE  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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.
Click for Course Student Learning Outcomes

ATCH 263 AUTOMOTIVE FUEL SYSTEMS: CARBURETION  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156.
Studies automotive fuel systems including filters, tanks, lines, safety equipment, pumps, carburetors, and computer controlled carburetors.
Transfer: CSU
Click for Course Student Learning Outcomes

ATCH 269 AUTOMOTIVE TECHNOLOGY INTERNSHIP  3.00
6.00 hours per week: (1.50 lecture hours/4.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

ATCH 280 MANUAL DRIVETRAINS  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156.
Presents the fundamental operation, service, diagnosis, and repair of clutch assemblies, manual transmissions and transaxles, 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
Click for Course Student Learning Outcomes

ATCH 281 MANUAL TRANSMISSIONS  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ATCH 182, ATCH 186, and ATCH 109 and ENGL 156
Presents the operation, diagnosis, repair, and overhaul of rear wheel drive manual transmissions, front wheel drive manual transaxles, and rear wheel drive axles as applied to automobiles and light duty trucks both foreign and domestic.
Transfer: CSU
Click for Course Student Learning Outcomes

ATCH 284 BRAKING SYSTEMS  4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ATCH 109 and ENGL 156
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
Click for Course Student Learning Outcomes

BIOLOGY

BIO 193 BIOLOGY SPECIAL TOPIC  0.50 to 4.00
0.00 - 6.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

BIO 201A BIOLOGY  5.00
9.00 hours per week: (3.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 127 and CHEM 210FL or one year of high school chemistry
Advisories: ENGL 156
Presents the philosophy of science, methods of scientific inquiry, and experimental design. The course will also cover principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, cell metabolism including photosynthesis and respiration, protein synthesis, classical/Mendelian genetics, molecular genetics, cellular communication, and biotechnology.
Transfer: CSU; UC
C-ID BIOL 190. BIO 201A+201B = C-ID BIO 135S and C-ID BIO 130S
Click for Course Student Learning Outcomes
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<th>Description</th>
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<th>Prerequisites</th>
<th>Letter Grade</th>
<th>Credit</th>
<th>Hours per week:</th>
<th>Click for Course Student Learning Outcomes</th>
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<tr>
<td>BIO 201B</td>
<td>BIOLOGY</td>
<td>5.00</td>
<td>Continues 201A with surveys of the biology, diversity, classification, and evolution of unicellular and multicellular organisms as well as foundational ecological principles. Emphasizes the classification, structure, and function of organisms, ecological principles, as well as theory and mechanisms of evolution. This course is the second in a sequence intended for biology majors. Transfer: CSU; UC C-ID BIOL 140; BIO 201A+201B = C-ID BIOL 13SS and C-ID BIOL 130S</td>
<td>CSU; UC</td>
<td>BIO 201A</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/6.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
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<td>BIO 202</td>
<td>GENERAL BOTANY</td>
<td>5.00</td>
<td>Presents a study of structure and function of roots, stems, leaves, flowers, fruits and seeds of the flowering plants. Includes the characteristics, life cycles, classification, evolution and ecology of cyanobacteria, fungi, algae and vascular plants. Transfer: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/6.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
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<td>BIO 204</td>
<td>MICROBIOLOGY</td>
<td>5.00</td>
<td>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: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL with a minimum grade of C or better or equivalent with a grade of C or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/6.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
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<td>BIO 205</td>
<td>HUMAN ANATOMY</td>
<td>4.00</td>
<td>Introduces the structure and function of the human body. Introduces and integrates cytology, histology, embryology and pathology throughout each organ system. Includes gross and microscopic anatomy of the integumentary, skeletal, muscular, nervous, endocrine, sensory, circulatory, lymphatic, respiratory, digestive, urinary and reproductive organ systems. Lab includes study of preserved specimens, models and charts. Transfer: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>2.00 lecture/8.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BIO 206</td>
<td>GENERAL HUMAN PHYSIOLOGY</td>
<td>5.00</td>
<td>Presents physiological principles, function, integration, and homeostasis of the human body at the cellular, tissue, organ, organ system and organism levels. Study functions in normal healthy conditions and the mechanisms of disease. Transfer: CSU; UC C-ID BIOL 120</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/6.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BIO 209C</td>
<td>COASTAL BIOLOGY FIELD STUDIES</td>
<td>1.00</td>
<td>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 the responsibility of the students. Transfer: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/3.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BIO 209D</td>
<td>DESERT BIOLOGY FIELD STUDIES</td>
<td>1.00</td>
<td>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 the responsibility of the students. Transfer: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/3.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BIO 209S</td>
<td>SIERRA BIOLOGY FIELD STUDIES</td>
<td>1.00</td>
<td>Studies Sierra ecosystems with emphasis on riparian and meadow habitats, Alpine and coniferous forest ecology and grandeur. Practices field study observations and techniques. Camping, food, and other expenses will be the responsibility of students. Transfer: CSU; UC</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>3.00 lecture/3.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BIO 210I</td>
<td>ISLAND BIOLOGY</td>
<td>2.00</td>
<td>Presents a lecture and field study course on the biology, ecology, and natural history 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</td>
<td>CSU; UC</td>
<td>Any 3-unit or greater college level biology course. Prerequisites: CHEM 210FL or equivalent with a grade of “C” or better.</td>
<td>Only</td>
<td>Degree Applicable</td>
<td>1.00 lecture/3.00 lab</td>
<td>Click for Course Student Learning Outcomes</td>
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</table>
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
Click for Course Student Learning Outcomes

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO 210M</td>
<td>ENVIRONMENTAL AND APPLIED MICROBIOLOGY</td>
<td>2.00</td>
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<tr>
<td></td>
<td>4.00 hours per week: (1.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade Only</td>
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<td>Advisories: ENGL 201A with a minimum grade of C or better</td>
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<td>Presents an examination of microorganisms in the environment including: occurrence, abundance, and distribution; processes of microbial interaction with the environment; importance to human and animal health and practices of applied environmental microbiology.</td>
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<td>Transfer: CSU</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 210R</td>
<td>NATURAL HISTORY OF THE COAST RANGES</td>
<td>2.00</td>
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<td>4.00 hours per week: (1.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade or P/NP</td>
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<td>Advisories: ENGL 201A</td>
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<td>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.</td>
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<td>Transfer: CSU</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 211</td>
<td>LIFE SCIENCE</td>
<td>3.00</td>
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<td></td>
<td>5.00 hours per week: (2.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Advisories: ENGL 156</td>
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<td>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.</td>
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<td>Transfer: CSU</td>
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<tr>
<td>BIO 212</td>
<td>HUMAN BIOLOGY</td>
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<td></td>
<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade or P/NP</td>
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<td>Advisories: ENGL 156</td>
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<td>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 Click for Course Student Learning Outcomes</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 212L</td>
<td>HUMAN BIOLOGY LABORATORY</td>
<td>1.00</td>
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<td>3.00 hours per week: (0.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade or P/NP</td>
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<td>Prerequisites: BIO 212</td>
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<td>Advisories: ENGL 156</td>
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<td>Laboratory to accompany Human Biology (BIO 212), a general education course for non-biology majors and pre-health related fields. Provides an introduction to the biology of the human species, designed to create an awareness and understanding of the human body functions, human’s place in nature and the mechanics of human heredity. Provides direct participation in experiments, demonstrations, and discussions. Topics include elements of human anatomy and physiology, nutrition, disease, elements of human heredity and environmental adaptations, and interpretations of relevant current topics in biology. Transfer: CSU; UC Click for Course Student Learning Outcomes</td>
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<th>Course Code</th>
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<tr>
<td>BIO 213</td>
<td>GENETICS IN SOCIETY</td>
<td>3.00</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade or P/NP</td>
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<td>Advisories: ENGL 156</td>
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<td>Introduces basic principles of genetics and heredity. Emphasizes current advances in genetics, including stem cell research, cloning, cancer, and genetically modified crops. Investigates the social consequences and ethical implications of biotechnology in medicine and agriculture. Transfer: CSU; UC Click for Course Student Learning Outcomes</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 216</td>
<td>PLANTS &amp; PEOPLE</td>
<td>4.00</td>
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<td></td>
<td>6.00 hours per week: (3.00 lecture hours/3.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade Only</td>
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<td>Designed for plant enthusiasts who do not have a strong science background. Includes the basic structure, physiology, reproduction, taxonomy, evolution, and ecology of plants. Discusses varied uses of plants by people of different cultures throughout history. Laboratory work includes setting up experiments, growing, and propagating plants. Students will also learn basic gardening techniques and how to design water-efficient sustainable gardens using California native plants. Transfer: CSU; UC Click for Course Student Learning Outcomes</td>
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<th>Course Code</th>
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<tr>
<td>BIO 220</td>
<td>ENVIRONMENTAL BIOLOGY</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Credit - Degree Applicable</td>
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<td>Letter Grade or P/NP</td>
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<td>Advisories: ENGL 201A</td>
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<td>Presents a study of biological concepts, processes, and organismal biology, including scientific methodology, me-</td>
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</table>
tabolism, genetics, evolution and ecology. These concepts are used to assess environmental issues including human population growth, biodiversity, biological conservation, pollution, and resource and energy use.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

**BIO 220L ENVIRONMENTAL BIOLOGY LAB** 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Completion of or concurrent enrollment in BIO 220.
Advisories: ENGL 201A

Presents an optional laboratory course designed to complement BIO 220, Environmental Science. Applies and expands knowledge gained in BIO 220 through field trips, laboratory investigations, and special projects.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

**BIO 221 GENERAL ECOLOGY** 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156 and MATH 007

Studies plant and animal communities emphasizing the interrelationships of 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
Click for Course Student Learning Outcomes

**BIO 222 MARINE BIOLOGY** 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP


Transfer: CSU; UC
Click for Course Student Learning Outcomes

**BIO 222L MARINE BIOLOGY LABORATORY** 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: BIO 222

Presents an applied, optional course designed to augment BIO 222, through laboratory and field investigations.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

**BIO 224 PRINCIPLES OF NATURAL HISTORY** 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

**BIO 240 BIOLOGY TEACHING ASSISTANT** 0.50 to 2.00
0.50 - 2.00 hours per week: (0.50 - 2.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Instructor approval

Prepares students to facilitate biology courses by developing tutorial skills, understanding of the learning process, and effectiveness as a teaching assistant.

Transfer: CSU
Click for Course Student Learning Outcomes

**BIO 241 BIOLOGY LAB ASSISTANT** 0.50 to 2.00
0.50 - 2.00 hours per week: (0.50 - 2.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Instructor approval

Prepares students to facilitate biology lab courses by developing laboratory, biosafety, and data acquisition skills.

Click for Course Student Learning Outcomes

**BIO 242 BIOLOGY RESEARCH ASSISTANT** 0.50 to 2.00
0.50 - 2.00 hours per week: (0.50 - 2.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Instructor approval

Applies principles and methods of biological research.

Click for Course Student Learning Outcomes

**BIO 247 INDEPENDENT STUDIES: BIOLOGY** 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.

Transfer: CSU
Click for Course Student Learning Outcomes

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**BUSINESS**

**BUS 130 INTRODUCTION TO E-COMMERCE** 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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 opportunities, and evaluates popular shopping cart packages.

Click for Course Student Learning Outcomes
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>BUS 131</td>
<td>E-COMMERCE: SOCIAL MEDIA MARKETING</td>
<td>3.00</td>
<td>Provides a hands-on introduction to social media marketing, including personal 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. Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 132</td>
<td>E-COMMERCE: INFORMATION PRODUCTS</td>
<td>3.00</td>
<td>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. Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 133</td>
<td>E-COMMERCE: PHYSICAL PRODUCTS</td>
<td>3.00</td>
<td>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. Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 134</td>
<td>E-COMMERCE: ENTREPRENEURSHIP</td>
<td>4.00</td>
<td>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. Click for Course Student Learning Outcomes</td>
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<tr>
<td>BUS 135</td>
<td>BUSINESS LAW</td>
<td>4.00</td>
<td>Offers legal knowledge concerning business and business relationships with emphasis on the laws of torts, property, contracts, agency, business organizations, and sales. Includes a study of the nature and background of American law, court systems, and court procedures. Transfer: CSU; UC C-ID BUS 120 and BUS 125 Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 136</td>
<td>WORKPLACE HUMAN RELATIONS</td>
<td>2.00</td>
<td>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. Click for Course Student Learning Outcomes</td>
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<tr>
<td>BUS 137</td>
<td>FINANCIAL ACCOUNTING</td>
<td>4.00</td>
<td>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 the 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 C-ID ACCT 110 Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 138</td>
<td>MANAGERIAL ACCOUNTING</td>
<td>4.00</td>
<td>Examination of how managers use 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 C-ID ACCT 120 Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>BUS 139</td>
<td>BUSINESS SPECIAL TOPIC</td>
<td>0.50 to 4.00</td>
<td>Examines a special topic in the field of study related to the discipline offering this course. Click for Course Student Learning Outcomes</td>
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<td>Course Code</td>
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<tr>
<td>BUS 227</td>
<td>BUSINESS COMMUNICATIONS</td>
<td>4.00</td>
<td>(4.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 228</td>
<td>OFFICE TECHNOLOGY AND TELECOMMUNICATIONS</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 229</td>
<td>BUSINESS INTERNSHIP</td>
<td>1.00 to 3.00</td>
<td>(0.20 - 0.50 lecture hours/2.50 - 7.50 lab hours)</td>
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<tr>
<td>BUS 240</td>
<td>ADVERTISING</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 241</td>
<td>SALES</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 241AG</td>
<td>AGRICULTURAL SALES AND COMMUNICATION</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 243</td>
<td>MARKETING</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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<tr>
<td>BUS 245</td>
<td>INTRODUCTION TO BUSINESS</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
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### BUS 245AG INTRODUCTION TO AGRICULTURAL BUSINESS
3.00 
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156  

Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 247 INDEPENDENT STUDIES: BUSINESS 0.50 to 2.00 
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 248 SMALL BUSINESS MANAGEMENT 3.00 
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156  

Presents the role of small businesses in the free enterprise system. Discusses numerous aspects of small business ownership. Provides techniques in strategic planning, marketing, and controlling business operations for managers of small firms.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 249 ENTREPRENEURSHIP 4.00 
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156 and MATH 123  

Introduces students to the concepts, techniques and requirements for establishing a business from an entrepreneurship viewpoint. Students will explore the roles that marketing, accounting, law and finance play in starting a business.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 251 ELEMENTS OF ACCOUNTING FOR BUSINESS INCLUDING AGRICULTURAL BUSINESS 4.00 
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: ENGL 156  

Provides a study of the principles of accounting for small business including agricultural business. Principles include types of records required, their use and how to compute and use measures of earnings and cost of production to improve business and agribusiness efficiencies. Income tax, Social Security, and employee payroll records also included. Application of these concepts and methods will include hands-on projects to develop computer-based solutions for a business or agribusiness. Students will choose a business focus from agricultural, service or retail merchandiser businesses.  
Transfer: CSU  
C-ID AG + AB 128  
Click for Course Student Learning Outcomes

### BUS 252 COMPUTERIZED ACCOUNTING USING QUICKBOOKS PRO 3.00  
(Formerly CAOA252)  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 260 INTERNATIONAL BUSINESS 3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: BUS 245  

Provides an understanding of the cultural dimensions and market forces necessary to conduct business in a global environment. Examines numerous ethnocentric models of cultural values and behavior plus explores cross-cultural differences between Asia, Latin America, Africa, Middle East, Europe, and the United States in order to develop appropriate strategies for conducting business in a transnational setting. Introduces concepts dealing with Personal Adjustment Skills, Business Effectiveness Skills, ethics abroad, legal situations outside the United States, linguistic variables and operating within a transnational team in order to navigate successfully in the international marketplace.  
Transfer: CSU  
Click for Course Student Learning Outcomes

### BUS 283 MANAGEMENT AND SUPERVISION 3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: BUS 201A or BUS 251  

Presents the role 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  
Click for Course Student Learning Outcomes
BUS 286  HUMAN RELATIONS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Examines human relations and their implications for the workplace. This course is primarily for business, government, and the service sector. Transfer: CSU
Click for Course Student Learning Outcomes

CHEMISTRY

CHEM 193  CHEMISTRY SPECIAL TOPIC  0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

CHEM 201A  GENERAL COLLEGE CHEMISTRY I  5.00
7.00 hours per week: (4.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CHEM 201A or One year High School Chemistry or equivalent with a grade of C or better and MATH 127
Presents the first semester of a one-year course in general chemistry. This course is intended primarily for science and engineering majors in the fundamental principles of chemistry. Topics covered include atomic structure, periodic law, thermochemistry, chemical bonding, correlation of structure with properties, quantitative relationships in chemical reactions, chemical formulas and equations, and computer acquisition and analysis of data.
Transfer: CSU; UC
C-ID CHEM 112. CHEM 201A+201B = C-ID CHEM 120S
Click for Course Student Learning Outcomes

CHEM 201B  GENERAL COLLEGE CHEMISTRY II  5.00
7.00 hours per week: (4.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CHEM 201A
Presents advanced general chemistry topics as a continuation of Chemistry 201A. Topics covered include chemical kinetics, thermodynamics, aqueous equilibria, free energy, entropy, electrochemistry, coordination chemistry, nuclear, and organic chemistry. Laboratory work includes quantitative and qualitative analysis with computer acquisition and analysis of data.
Transfer: CSU; UC
C-ID CHEM 112. CHEM 201A+201B = C-ID CHEM 120S
Click for Course Student Learning Outcomes

CHEM 201X  APPLIED PROBLEMS FOR GENERAL CHEMISTRY  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Corequisites: CHEM 201A
Presents problem-solving and fundamental reasoning skills needed for success in Chem 201A. This course is designed for students who meet Chem 201A prerequisites but need additional preparation prior to enrolling in Chem 201A. Topics include techniques for chemical problem solving, dimensional analysis, unit conversion, chemical nomenclature, fundamentals of chemical reactions, and principles of stoichiometry including mass, mole, and volume calculations.
Transfer: CSU
Click for Course Student Learning Outcomes

CHEM 201FL  INTRODUCTORY CHEMISTRY WITH FACILITATOR ASSISTED LEARNING  4.00
7.00 hours per week: (3.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 123
Presents 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
C-ID CHEM 101
Click for Course Student Learning Outcomes

CHEM 211  INTRODUCTORY ORGANIC/BIOCHEMISTRY  4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CHEM 210FL or equivalent
Presents a survey of organic and biochemistry. Intended primarily for nursing, allied health, agriculture, and some biology majors. Topics include the classification, structure, and reactions of organic molecules as well as biological chemistry as it applies to living systems. Laboratory topics include separation techniques, characterization of organic molecules, reactions of organic and biological compounds.
Transfer: CSU; UC
C-ID CHEM 102
Click for Course Student Learning Outcomes

CHEM 212A  ORGANIC CHEMISTRY I  5.00
9.00 hours per week: (3.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CHEM 210FL with a minimum grade of C or better and MATH 127
Presents the first semester of a one-year course in organic chemistry. This course is intended primarily for science and engineering majors in the fundamental principles of organic chemistry. Topics covered include separation techniques, characterization of organic molecules, reactions of organic and biological compounds.
Transfer: CSU
Click for Course Student Learning Outcomes
chemistry intended primarily for science and preprofessional health majors. The theoretical concepts, structure, nomenclature, and physical properties of hydrocarbons, alkyl halides, alcohols and ethers are studied. Topics include stereochemistry, conformations, MO theory, delocalized electrons as well as nucleophilic substitution, electrophilic addition, elimination, and radical reactions and reaction mechanisms. Laboratory work includes extensive study of organic techniques for separation and identification.

Transfer: CSU; UC
C-ID CHEM 150. CHEM 212A+212B – C-ID CHEM 160S
Click for Course Student Learning Outcomes

CHEM 212B ORGANIC CHEMISTRY II 5.00
9.00 hours per week: (3.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CHEM 212A

Presents the second semester of a one-year course in organic chemistry. Includes the study of mechanisms and reactions of carbonyl compounds, acid derivatives, and aromatic compounds. Structure elucidation using spectroscopy, multi-step synthesis, and some biochemical applications of organic chemistry will be studied.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

CHEM 245A INTRODUCTION TO CHEMISTRY FACILITATOR ASSISTED LEARNING 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Advisories: CHEM 210FL or CHEM 201A

Prepares students to facilitate Introductory Chemistry by developing interpersonal skills, understanding of the learning process, and effectiveness as a facilitator. Introduces practical applications of facilitator assisted learning (FAL) in small groups of chemistry students.

Transfer: CSU
Click for Course Student Learning Outcomes

CHEM 245B ADVANCED CHEMISTRY FACILITATOR ASSISTED LEARNING 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: CHEM 245A

Examines advanced approaches to facilitating Introductory Chemistry using interpersonal skills and knowledge of learning processes to increase effectiveness as a facilitator. Analyzes and implements facilitator assisted learning (FAL) techniques as applied to small groups of chemistry students.

Transfer: CSU
Click for Course Student Learning Outcomes

CHEM 245C CHEMISTRY FACILITATOR ASSISTED LEARNING MENTOR 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: CHEM 245B

Analyzes facilitator assisted learning (FAL) techniques by acting as a mentor to beginning facilitators. Advanced approaches to facilitating Introductory Chemistry will be applied to small groups of Introductory Chemistry students.

Transfer: CSU
Click for Course Student Learning Outcomes

COLLEGE SUCCESS STUDIES

CSS 025 COLLEGE SUCCESS STUDIES LABORATORY 0.50 to 1.00
(Formerly ACSK005, CSS005)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Not Degree Applicable
P/NP Only

Provides students with learning assistance designed to improve skills in reading, writing, mathematics, study skills, and English as a Second Language. Students work independently and at their own pace using software and web-based programs, videos, workshops, and supplemental materials provided by the instructor. Laboratory time is arranged with the instructor. (Formerly ACSK 005 and CSS 005)

Click for Course Student Learning Outcomes

CSS 058 GRAMMAR STRATEGIES 2.00
(Formerly ACSK058)
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

Focuses on the basic grammar, punctuation, and usage skills essential for effective writing. Provides extensive practice to apply and reinforce written language skills with an emphasis on the function of grammar and the use of it to improve writing effectiveness and reading comprehension.

Click for Course Student Learning Outcomes

CSS 080 READING STRATEGIES 3.00
(Formerly ACSK036, CSS036)
3.100 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

Focuses on the basic grammar, punctuation, and usage skills essential for effective writing. Provides extensive practice to apply and reinforce written language skills with an emphasis on the function of grammar and the use of it to improve writing effectiveness and reading comprehension.

Click for Course Student Learning Outcomes

CSS 085 WRITING STRATEGIES 3.00
(Formerly ACSK058)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

Focuses on the basic grammar, punctuation, and usage skills essential for effective writing. Provides extensive practice to apply and reinforce written language skills with an emphasis on the function of grammar and the use of it to improve writing effectiveness and reading comprehension.

Click for Course Student Learning Outcomes

CSS 090 COLLEGE READING STRATEGIES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: CSS 080 with a minimum grade of C or better or eligibility for ENGL 099

Click for Course Student Learning Outcomes
Promotes comprehension of college texts through the development of successful approaches toward reading and learning, college textbook reading strategies, content-specific vocabulary strategies, and thought patterns.
Click for Course Student Learning Outcomes

CSS 099  NON-CREDIT SUPERVISED TUTORING  0
(Formerly ACSK099)
4.00 hours per week: (0.00 lecture hours/4.00 lab hours)
Noncredit
Non-credit Course
Prerequisites: 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.
Click for Course Student Learning Outcomes

CSS 125  COLLEGE LEARNING STRATEGIES  2.00
(Formerly ACSK120, CSS120)
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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; and active listening and note-taking strategies; test preparation; synthesizing and reviewing course content; test taking strategies; and campus resources.
Click for Course Student Learning Outcomes

CSS 168  TUTOR TRAINING: SELECTED TOPICS  0.50 to 1.00
(Formerly ACSK168)
0.50 - 1.00 hours per week: (0.50 - 1.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Provides specialized information and guided practice in designated topics or projects such as group dynamics, effective communication, tutoring techniques, effective study skills, problem solving techniques, and campus and online resources. 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.
Click for Course Student Learning Outcomes

CSS 225  COLLEGE SUCCESS  3.00
(Formerly ACSK225)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Integrates personal growth and values, academic study strategies, and critical and creative thinking proficiency. 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. Emphasizes the attainment of life-long success in academic, professional and personal development.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

COMM 193  COMMUNICATION STUDIES SPECIAL TOPIC  0.50 to 4.00
(Formerly SPCM193)
1.50 - 12.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examine a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

COMM 201  PUBLIC ADDRESS  3.00
(Formerly SPCM201A, COMM201A)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A
Introduces students to the theory and techniques of public speaking with an emphasis on clear, logical organization and effective delivery of expository and persuasive speeches.
Transfer: CSU; UC
C-ID COMM 110
Click for Course Student Learning Outcomes

COMM 210  SMALL GROUP COMMUNICATION  3.00
(Formerly SPCM210)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A
Explores the theories, techniques, and methods of small group communication. Develops participation and leadership skills of effective communicators within the small group setting by focusing on problem-solving, decision-making, conflict resolution, dimensions of diversity, responsibilities of group members, and managing the group process. Provides applied practice through group activities, group presentations, and project group work. Involves regular outside of class group meetings.
Transfer: CSU; UC
C-ID COMM 140
Click for Course Student Learning Outcomes

COMM 212  INTERCULTURAL COMMUNICATION  3.00
(Formerly SPCM212)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Eligibility for ENGL 201A
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
C-ID COMM 150
Click for Course Student Learning Outcomes

COMM 215 ARGUMENTATION AND DEBATE 3.00
(Formerly SPCM215)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

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
C-ID COMM 120
Click for Course Student Learning Outcomes

COMM 230 INTERPERSONAL COMMUNICATION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A

Applies theory and research to communication in interpersonal relationships in personal and professional contexts. It examines effective and appropriate uses of verbal and non-verbal messages in the initiation, development, maintenance, and termination of interpersonal relationships.

Transfer: CSU; UC
C-ID COMM 130
Click for Course Student Learning Outcomes

COMM 247 INDEPENDENT STUDIES: SPEECH 0.50 to 2.00
(Formerly SPCM247)
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.

Transfer: CSU
Click for Course Student Learning Outcomes

COMM 280 SURVEY OF COMMUNICATION STUDIES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 201A

Introduces students to the symbolic process and history of human communication through the study of basic communication models, fundamental theory, and relevant research findings. Emphasis will be placed on achieving an understanding of the communication process, and the process through which researchers in the field of Human Communication Studies add to their existing body of knowledge.

Transfer: CSU; UC
C-ID COMM 180
Click for Course Student Learning Outcomes

COMPUTER INFORMATION SYSTEMS

CIS 103 FUNDAMENTALS OF PROGRAMMING FOR THE INTERNET 2.00
3.00 hours per week: (1.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only

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.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

CIS 106 SERVER-SIDE PROGRAMMING 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

CIS 154 ESSENTIALS OF MS OUTLOOK 2.00
(Formerly CAOA154)
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CIS 210

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.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

CIS 156 TEST PREP FOR MICROSOFT OFFICE SPECIALIST(MOS) CERTIFICATION 0.50
(Formerly CAOA156)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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.

Transfer: CSU; UC
Click for Course Student Learning Outcomes
CIS 173  ADOBE ACROBAT 1.50  
(Formerly CAOA173)  
2.00 hours per week: (1.25 lecture hours/0.75 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID COM 112  
Letter Grade or P/NP  
Credit - Degree Applicable  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 301  TECHNOLOGY PROJECT 2.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 203  IOS DEVELOPMENT I 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 204  IOS DEVELOPMENT II 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: CIS 203  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 207  ANDROID DEVELOPMENT I 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 208  ANDROID DEVELOPMENT II 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: CIS 207  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 210  INTRODUCTION TO COMPUTER APPLICATIONS 4.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 216A  INTRODUCTION TO AGRICULTURAL COMPUTER APPLICATIONS 4.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 220  INTRODUCTION TO BUSINESS APPLICATIONS 4.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 230  INTRODUCTION TO DATABASE APPLICATIONS 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 231  INTRODUCTION TO NETWORK APPLICATIONS 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 232  INTRODUCTION TO SECURITY APPLICATIONS 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 233  INTRODUCTION TO WEB APPLICATIONS 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes  
C-IS 235  TEXT TO SPEECH APPLICATIONS 3.00  
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: None  
Advisories: ENGL 156  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes  
Transfer: CSU; UC  
C-ID BUS 140  
Letter Grade or P/NP  
Credit - Degree Applicable  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Click for Course Student Learning Outcomes
also covers the ethical issues surrounding technology in an agribusiness setting. Credit for one course allowed between CIS 210 and CIS 210AG.

Transfer: CSU; UC
C-ID AG + AB 108
Click for Course Student Learning Outcomes

CIS 215 ADVANCED BUSINESS APPLICATIONS 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: CIS 210
Integrate advanced skills and problem solving abilities using word processing, spreadsheet and database applications to complete business projects.
Transfer: CSU
Click for Course Student Learning Outcomes

CIS 217 "C" PROGRAMMING LANGUAGE 3.00
4.00 hours per week: (3.00 lecture hours/1.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a course in programming computers using the ANSI "C" programming language. Includes techniques for analyzing problems and devising algorithms for the computer solution of problems requiring the use of elementary algebraic concepts.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

CIS 231 FUNDAMENTALS OF COMPUTER SCIENCE I 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CIS 201
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
C-ID COMP 122
Click for Course Student Learning Outcomes

CIS 232 FUNDAMENTALS OF COMPUTER SCIENCE II 2.00
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Continues the fundamentals of algorithmic problem solving and applications in the engineering of modern computer software using procedural and object-based methods and object oriented programming languages. Presents the principles of abstract data types, including the specification and implementation of simple abstractions such as tables, stacks, queues and lists. Includes basic searching and sorting algorithms and introduces the analysis of algorithms and recursion.
Transfer: CSU; UC
C-ID COMP 132
Click for Course Student Learning Outcomes

CIS 233 FUNDAMENTALS OF COMPUTER SCIENCE III 2.00
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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
C-ID COMP 133
Click for Course Student Learning Outcomes

CIS 240 MICROCOMPUTER ARCHITECTURE & PROGRAMMING 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGR 219
Presents basic microprocessor concepts including internal architecture, memory, addressing, and control through the use of assembly language. Students will write a variety of assembly language programs to perform logic functions and high speed hardware control operations. The use of assemblers, linkers, and debugging tools will be explored.
Transfer: CSU; UC
C-ID COMP 142
Click for Course Student Learning Outcomes

CIS 241 DISCRETE STRUCTURES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 231 or MATH 229 and MATH 242 or High School equivalent
Develops and analyzes 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
Click for Course Student Learning Outcomes

CIS 247 INDEPENDENT STUDIES: COMPUTER & INFORMATIONAL SCIENCE 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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
Click for Course Student Learning Outcomes

CIS 271 COMPUTER GAME DESIGN 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Provides students with insights and experience with game
design and development.
Transfer: CSU
Click for Course Student Learning Outcomes

COMPUTER AND NETWORKING TECHNOLOGY

CNET 100  CERTIFICATION PREPARATION AND TESTING  0.50
1.50 hours per week: (0.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

CNET 121  INTRODUCTION TO COMPUTER OPERATIONS  2.50
3.50 hours per week: (2.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces basic computer and operating system functions and operation. Includes overview of PC hardware components, interface devices, operating system purpose and uses. Provides hands on training in graphical user interface and command window operation, software installation and configuration.
Click for Course Student Learning Outcomes

CNET 218  WIRELESS NETWORK COMMUNICATION AND ADMINISTRATION  4.00
(Formerly ETC218)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: 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
Click for Course Student Learning Outcomes

CNET 221  COMPUTER WORKSTATION ADMINISTRATION  3.00
(Formerly CIS221)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Presents fundamental concepts for configuration of Windows based computers, devices, users, and associated network or security resources. The course covers windows desktop computers in a network based environment that IT support technicians typically work. Operating systems are configured in both domain-based and peer-to-peer network environments with access to the Internet and cloud services. Students learn concepts using both desktop and enterprise Virtualization to configure operating systems and access services.
Transfer: CSU
Click for Course Student Learning Outcomes

CNET 235  COMPUTER SYSTEM SECURITY  4.00
(Formerly CIS235)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CIS 221 or CIS 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
Click for Course Student Learning Outcomes

CNET 253  COMPUTER TECHNICIAN FUNDAMENTALS  3.00
(Formerly ETC253)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: EET 213
Introduces fundamental concepts involved with upgrading and repairing personal computers, basic server hardware and mobile computing devices. Includes topics on the “A+” computer service technician certification plus selected industry relevant topics. Lectures and labs will cover internal computer operation, operating systems, primary and secondary storage methods (system memory modules and disk drives), adapter cards, computer connectivity, and power supplies. Different components and subsystems will be compared and evaluated based on performance specifications and design considerations.
Transfer: CSU
Click for Course Student Learning Outcomes

CNET 254  SERVER MAINTENANCE AND ADMINISTRATION  4.00
(Formerly ETC254)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CNET 253 and CNET 221
Prepares the student for the Microsoft Server Administration certification in a VMware virtualization environment. The course builds on concepts taught in the Microcomputer Fundamentals and Operating System Concepts courses. Topics include server architecture, RAID controller configuration, server virtualization and server operating system administration, iSCSI SAN configuration for VMware Cold Migration backups, vMotion and High Availability.
Transfer: CSU
Click for Course Student Learning Outcomes

CNET 255  COPPER AND FIBER OPTIC CABLING  4.00
(Formerly ETC255)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: MATH 123
Addresses topics on industry standard network cabling certification tests. Presents basic concepts in both copper and fiber optic 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 both multi-category twisted pair and fiber optic connectors will be studied and applied. Testing and troubleshooting of network cabling and terminations using wiremap, performance testers, optical test sets and optical time domain reflectometers will be explored. Certification testing at the end of the course will be offered.

Transfer: CSU
Click for Course Student Learning Outcomes

CNET 260 NETWORKING FUNDAMENTALS 2.50
(Formerly CIS260)
3.50 hours per week: (2.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CNET 253
Introduces students to the TCP/IP networking protocols, network topologies and media, and internetworking devices. Students will use sophisticated network design, configuration, and analysis CAD tools to select different networking media types, implement cabling and wiring connections, and develop IP addressing and subnetting schemes.
Transfer: CSU
Click for Course Student Learning Outcomes

CNET 261 ROUTER THEORY AND TECHNOLOGY 2.50
(Formerly CIS261)
3.50 hours per week: (2.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CNET 260
Introduces students to dynamic routing and packet switching concepts, routing tables and interface configuration, IPv4 and IPv6 addressing schemes, and network security (IPSec) protocols. Configuration and troubleshooting activities will focus on IPSec (data encryption and security), OSPF (Open Shortest Path First), and EIGRP (Enhanced Interior Gateway Routing Protocol).
Transfer: CSU
Click for Course Student Learning Outcomes

CNET 262 LOCAL AREA NETWORKS 2.50
(Formerly CIS262)
3.50 hours per week: (2.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CNET 260
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
Click for Course Student Learning Outcomes

CNET 263 WIDE AREA NETWORKS 2.50
(Formerly CIS263)
3.50 hours per week: (2.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CNET 260
Presents the technology, concepts, and protocols used for interconnecting networks and users through the wide area telecommunications infrastructure. Topics include the Point-to-Point Protocol (PPP), DSL and cable modem connections, Frame Relay, Virtual Private Networks (VPNs), as well as wide area network addressing and security solutions (IPv6 and IPSEC). This course completes preparation for the Cisco Certified Network Associate (CCNA) Exam.
Transfer: CSU
Click for Course Student Learning Outcomes

CONSTRUCTION TECHNOLOGY

CTCH 100 WORKPLACE SAFETY 2.00
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces safety topics that address the OSHA 10 and 30 hour training requirements. Topics including OSHA safety and health standards, common violations, OSHA regulations, whistle blower rights, record keeping rules, fall protection, fire protection, electrical safety, hazard communications, personal protective equipment and emergency planning.
Click for Course Student Learning Outcomes

CTCH 101 SURVEY OF RESIDENTIAL CONSTRUCTION 1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of the residential construction industry in a hands-on environment, with an emphasis on the foundational knowledge and skills required for basic entry-level construction trades positions.
Click for Course Student Learning Outcomes

CTCH 163 CONSTRUCTION MANAGEMENT 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Presents the principles and practices of construction management for small firms, with emphasis on marketing, cost accounting, job costing, ownership structure, financing, legal requirements, and construction bonding.
Click for Course Student Learning Outcomes

CTCH 164 BLUEPRINT READING 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156 and CTCH 250
Introduces basic skills in interpreting blueprints used in construction and interpreting requirements of a plan check. Covers architectural working drawings of residential, light construction, and commercial buildings. Provides an overview of building code provisions in a plan check.
Click for Course Student Learning Outcomes

CTCH 168 RESIDENTIAL PLUMBING 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces basic residential plumbing theory, installation techniques, plan reading and estimating methods.
Click for Course Student Learning Outcomes
CTCH 169  RESIDENTIAL WIRING  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 250
Introduces basic residential wiring skills. Includes basic electrical theory, installation techniques, basic plan reading, estimating and wiring methods.
Click for Course Student Learning Outcomes

CTCH 171  HOMEBUILDING - LAYOUT AND CONCRETE I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 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.
Click for Course Student Learning Outcomes

CTCH 172  HOMEBUILDING - FLOOR AND WALL FRAMING I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 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.
Click for Course Student Learning Outcomes

CTCH 173  HOMEBUILDING - ROOF FRAMING I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 250
Introduces types of roof and stair systems, roofing, estimating live and dead loads, and specialized structural systems.
Click for Course Student Learning Outcomes

CTCH 174  HOMEBUILDING - FINISH CARPENTRY I  3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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.
Click for Course Student Learning Outcomes

CTCH 176  BASIC WATER TREATMENT  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: MATH 123
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.
Click for Course Student Learning Outcomes

CTCH 177  WATER DISTRIBUTION SYSTEMS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: MATH 123
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.
Click for Course Student Learning Outcomes

CTCH 180A  BUILDING CODE I, ARCHITECTURAL DESIGN PROVISIONS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 250
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.
Click for Course Student Learning Outcomes

CTCH 181  NATIONAL ELECTRICAL CODE  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: CTCH 169 and ENGL 156
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.
Click for Course Student Learning Outcomes

CTCH 183  COMMERCIAL AND INDUSTRIAL WIRING SYSTEMS  4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: CTCH 169 and EET 213
Presents planning, construction, and testing of a typical commercial electrical installation including: plans and specifications, applicable codes, load calculations, wire sizing, conduit fill analysis and bending, branch circuits, feeders, grounding practices, transient surge suppression, uninterpretable power supply selection and installation techniques. Additionally studies the responsibilities and knowledge required for professional industrial and commercial electricians working under current state certification requirements including: industrial electrical service power
Certification Examination.
Course developed in conjunction with the California Apprenticeship Council’s standards for the State Electrical Certification Examination.

CTCH 193  CONSTRUCTION TECHNOLOGY SPECIAL TOPIC 0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.

CTCH 201  PLANE SURVEYING 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 229 or MATH 231
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

CTCH 247  INDEPENDENT STUDIES: CONSTRUCTION TECHNOLOGY 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.

CTCH 250  MATERIALS OF CONSTRUCTION 3.00
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents the use and application of construction processes and materials for residential, commercial, heavy and highway construction. Covers topics such as elements of city planning, contracting, designing, construction finance, and real estate principals.

CTCH 284  SOLAR TECHNOLOGY I 3.50
5.50 hours per week: (2.50 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: AC/DC current and voltage Power calculations DC to AC
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.

CTCH 285  SOLAR TECHNOLOGY DESIGN AND CONSTRUCTION 3.50
5.50 hours per week: (2.50 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Builds on basic concepts from introduction to solar technology (CTCH 284), expanded topics include: solar system sizing, mechanical and electrical integration, utility interconnection, permitting and inspection, commissioning, maintenance, troubleshooting and economic analysis. Addresses topics on the NABCEP PV entry level certification exam.

CTCH 287  INTRODUCTION TO GREEN TECHNOLOGY 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces students to Green Building technologies. Investigates environmental trades impact on society, conservation fundamentals, energy management concepts, basics of retrofits, energy efficient building techniques and solar and wind energy principles.

COUN 156  STUDENT SUCCESS 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Advisories: 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.

COUN 250  EDUCATIONAL PLANNING 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Explore the resources and tools needed to take charge of your educational experience and maximize your academic success. Identify successful college behaviors, campus resources, academic policies and procedures, goal setting, and decision-making strategies. Evaluate interests, person-
### COUN 254  CAREER EXPLORATION 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

### CRIMINAL JUSTICE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Hours per week:</th>
<th>Credit and Degree Applicability</th>
<th>Letter Grade or P/NP</th>
<th>Advisories</th>
<th>Transfer</th>
<th>C-ID</th>
<th>Click for Course Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 193</td>
<td>CRIMINAL JUSTICE SPECIAL TOPIC 0.50 to 4.00</td>
<td>1.50 - 12.00</td>
<td>(0.00 lecture hours/1.50 - 12.00 lab hours)</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>ENGL 156</td>
<td>CSU; UC</td>
<td>AJ 110</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>CJ 202</td>
<td>INTRODUCTION TO CRIMINAL JUSTICE 3.00</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>ENGL 156</td>
<td>CSU; UC</td>
<td>AJ 110</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>CJ 204</td>
<td>PRINCIPLES AND PROCEDURES OF THE JUSTICE SYSTEM 3.00</td>
<td>3.00</td>
<td>(3.00 lecture hours/0.00 lab hours)</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>ENGL 156</td>
<td>CSU; UC</td>
<td>AJ 122</td>
<td>Click for Course Student Learning Outcomes</td>
</tr>
</tbody>
</table>

Criminal Justice

### CJ 206  CONCEPTS OF CRIMINAL LAW 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Presents elements of the penal code and general laws about crimes against persons, property, standards of morality, and the state.
Transfer: CSU; UC
C-ID AJ 120
Click for Course Student Learning Outcomes

### CJ 208  LEGAL ASPECTS OF EVIDENCE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
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
C-ID AJ 124
Click for Course Student Learning Outcomes

### CJ 210  PRINCIPLES OF INVESTIGATION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
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
C-ID AJ 140
Click for Course Student Learning Outcomes

### CJ 213  PATROL PROCEDURES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Studies patrol operations, strategies, objectives, technologies and techniques. Explores effective communication, terrorism management, emergency response strategies and responses to calls for service.
Transfer: CSU
C-ID AJ 140
Click for Course Student Learning Outcomes

### CJ 224  COMMUNITY, DIVERSITY AND THE JUSTICE SYSTEM 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Explores the complex dynamic 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 and evolving multicultural population and imparts cultural com-
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.

Transfer: CSU

Click for Course Student Learning Outcomes

CJ 228 INVESTIGATIVE REPORT WRITING 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156

Presents the history, operation, management, and procedures of the adult and juvenile correctional systems, including probation and parole. Examines the general operation of correctional institutions and the associated legal issues. Includes an examination of correctional policy and its impact on society.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

CUL 220 CULINARY ARTS FUNDAMENTALS II 1.50
3.00 hours per week: (0.75 lecture hours/2.25 lab hours)
Credit - Degree Applicable
Letter Grade Only

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

Click for Course Student Learning Outcomes

DISTANCE

DIST 101 INTRODUCTION TO ONLINE COURSES 0.50
1.50 hours per week: (0.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only

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.

Click for Course Student Learning Outcomes

DRAMA

DRA 200 ACTING I 3.00
(Formerly DRA201A)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only

Explores basic acting theory to performance and develops the skills of interpretation of great dramatic works of the imagination through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and cultural interpretation of text.

Transfer: CSU; UC
C-ID THTR 151
Click for Course Student Learning Outcomes

DRA 201 ACTING II - ACTING FOR THE CAMERA 3.00
(Formerly DRA201B)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: DRA 200 with a minimum grade of B or better

Continues the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis,
monologues, and scenes with special emphasis on styles and forms of acting. Students may perform in an Acting Showcase at semester’s end.

Transfer: CSU; UC
C-ID THTR 152
Click for Course Student Learning Outcomes

DRA 207 INTRODUCTION TO THEATRE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions.
Transfer: CSU; UC
C-ID THTR 111
Click for Course Student Learning Outcomes

DRA 209 INTRODUCTION TO THEATRE DESIGN 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Introduces the student to the theories and practices of theatrical design as it applies to scenery, properties, lighting, sound, costumes, and make-up. Includes an overview of theatrical equipment and construction techniques necessary to realize the design.
Transfer: CSU; UC
C-ID THTR 172
Click for Course Student Learning Outcomes

DRA 211 STAGECRAFT 3.00
(Formerly DRA211A)
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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, and theatre performance spaces.
Transfer: CSU; UC
C-ID THTR 171
Click for Course Student Learning Outcomes

DRA 214 SCRIPT ANALYSIS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 099
Study a variety of plays and learn how to examine their structure, theme and cultural context. Script analysis is an essential applied skill for actors, designers and directors.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

DRA 236 INTRODUCTION TO THEATRICAL COSTUME CONSTRUCTION 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Explores the basic areas of costume construction. Topics include fabrics, color, patterns, sewing techniques, costume pieces, and accessories. Period styles, costume analysis, and basic design are also covered. It offers experience in constructing costumes for theatrical productions. Field trips may be required.
Transfer: CSU; UC
C-ID THTR 174
Click for Course Student Learning Outcomes

DRA 240 TECHNICAL THEATRE PRACTICUM 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU; UC
C-ID THTR 192
Click for Course Student Learning Outcomes

DRA 247 INDEPENDENT STUDIES: DRAMA 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Instructor's consent through audition.
Collaborate as a successful actor in a theater production's rehearsal and performance of a great dramatic and cultural work of the human imagination.
Repeatable 3 time(s).
Transfer: CSU
Click for Course Student Learning Outcomes

DRA 248 REHEARSAL AND PERFORMANCE IN PRODUCTION 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Instructor's consent through audition.
Collaborate as a successful actor in a theater production’s rehearsal and performance of a great dramatic and cultural work of the human imagination.
Repeatable 3 time(s).
Transfer: CSU
C-ID THTR 191
Click for Course Student Learning Outcomes

EARLY CHILDHOOD EDUCATION

ECE 201 CHILD GROWTH AND DEVELOPMENT 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ENGL 156
Presents a study of human development, and major milestones, from conception to adolescence; including cognitive (language), physical, social and emotional development, both typical and atypical, in order to foster an understand-
ing of human behavior. In the process of studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages.

Transfer: CSU; UC
C-ID CDEV 100
Click for Course Student Learning Outcomes

ECE 202 CHILD, FAMILY AND COMMUNITY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

Transfer: CSU; UC
C-ID CDEV 110
Click for Course Student Learning Outcomes

ECE 203 CURRICULUM FOR YOUNG CHILDREN 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and fostering the joy of learning for all young children using observation and assessment strategies emphasizing the essential role of play. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science.

Transfer: CSU
C-ID ECE 130
Click for Course Student Learning Outcomes

ECE 204 HEALTH, SAFETY, AND NUTRITION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Introduction to the Title 22 Community Care Licensing laws, regulations, standards, center specific sun exposure and poison control policies and procedures, Red Cross and Playground Safety policies, and environmental rating scales for early childhood and infant/toddler programs and curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children.

Transfer: CSU
C-ID ECE 220
Click for Course Student Learning Outcomes

ECE 205 INTRODUCTION TO EARLY CHILDHOOD EDUCATION: PRINCIPLES AND PRACTICES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: Concurrent enrollment in ECE 206 is highly recommended
Provides an overview of Early Childhood Education, educational requirements, compensation for teachers in California, and developmentally appropriate curriculum planning and teaching methods. This course reviews the historical roots of early childhood programs and the evolution of the practices promoting advocacy, professional ethics and identity.

Transfer: CSU
C-ID ECE 120
Click for Course Student Learning Outcomes

ECE 206 OBSERVATION, RECORDING TECHNIQUES AND ASSESSMENT 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: Concurrent enrollment in ECE 205 is highly recommended
Explores techniques in observing, documenting and assessing the development and behavior of children. Anecdotal records, checklists, rating systems, portfolios and multiple assessment strategies will be explored.

Transfer: CSU
C-ID ECE 200
Click for Course Student Learning Outcomes

ECE 209 GUIDANCE, CURRICULUM AND ENVIRONMENTS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Corequisites: ECE 210
Advisories: ENGL 156
Presents the principles of behavior and development that inform effective guidance, classroom management, curriculum, and learning environments. Analyzes the sources of curriculum and methodologies used in planning, presenting and assessing learning experiences and classroom ecologies. Meets Title XXII requirements: DS 3.

Transfer: CSU
Click for Course Student Learning Outcomes

ECE 210 PRACTICUM: FIELD EXPERIENCE 3.00
7.00 hours per week: (1.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ECE 201, ECE 202, ECE 203, ECE 205, ECE 206, and Department of Social Services Title XXII, Section 101215B requires current TB clearance
Corequisites: ECE 209
Advisories: ENGL 156
Demonstrate developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and
knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.

**ECE 211 MUSIC AND MOVEMENT ACTIVITIES FOR YOUNG CHILDREN 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Advisories:** ENGL 156

Presents 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

**Click for Course Student Learning Outcomes**

**ECE 215 TEACHING IN A DIVERSE SOCIETY 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**
- **Prerequisites:** ENGL 156

Explores the issues of diversity and social justice and applies these concepts to early education programs. Self examination and reflection contribute to a deepening 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. Various classroom strategies will be explored, emphasizing a culturally and linguistically appropriate anti-bias approach to creating a multicultural classrooms.

- **Transfer:** CSU

**Click for Course Student Learning Outcomes**

**ECE 220 ART FOR CHILDREN 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**

Presents the study of the developmental sequence of children's art and the teaching implications for children from age two through age eight with an emphasis on creative expression, aesthetic development, cultural and art heritage. Introduces a variety of media including drawing, painting, collage, printmaking, clay, assemblage, mask and puppet making. Meets Title XXII requirements: DS 3, DS 5.

- **Transfer:** CSU

**Click for Course Student Learning Outcomes**

**ECE 234 CHILDREN'S LITERATURE 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**

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: DS 3, DS 5.

- **Transfer:** CSU

**Click for Course Student Learning Outcomes**

**ECE 235 STRATEGIES FOR CHALLENGING BEHAVIORS IN THE ECE CLASSROOM 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**

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.

- **Transfer:** CSU

**Click for Course Student Learning Outcomes**

**ECE 236 UNDERSTANDING THE CHILD WITH SPECIAL NEEDS 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**

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

**Click for Course Student Learning Outcomes**

**ECE 242 INFANT-TODDLER CAREGIVING 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade or P/NP**

Presents theories, techniques, and guidelines for the appropriate care, nurturing and guidance of infants and toddlers. Examines the materials, equipment and activities appropriate for children from infancy through age three. Examines the special needs of infants and toddlers with regard to health and safety, nutrition, rest and toileting. Meets Title XXII requirements: DS 4.

- **Transfer:** CSU

**Click for Course Student Learning Outcomes**

**ECE 244 SUPERVISION AND ADMINISTRATION OF PARENT PROGRAMS 3.00**
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

- **Credit - Degree Applicable**
- **Letter Grade Only**

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.

ECE 245  ADULT SUPERVISION, EVALUATION AND STAFF RELATIONS IN ECE  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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 Basic: DS 6 Advanced. Recommended: one year of Early Childhood Education teaching experience.
Transfer: CSU
Click for Course Student Learning Outcomes

ECE 246  ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD SCHOOLS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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
Click for Course Student Learning Outcomes

ECON 193  ECONOMICS SPECIAL TOPIC  0.50 to 4.00
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

ECON 201A  PRINCIPLES OF MACROECONOMICS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 123
Advisories: MATH 127
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Economics under the direction of an instructor.
Transfer: CSU
Click for Course Student Learning Outcomes

ECON 201B  PRINCIPLES OF MICROECONOMICS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 123
Advisories: MATH 127
Presents introductory concepts pertaining to choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, consumer demand, elasticity, production and cost theory, market structures, factor markets, market failure, and international trade. Credit for one course allowed between ECON 201B and ECON 201AG.
Transfer: CSU; UC
C-ID ECON 201
Click for Course Student Learning Outcomes

ECON 220  PERSONAL FINANCIAL PLANNING  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Covers the management of personal incomes and expenditures using methodology and resources for effective financial planning. Topics include creating a budget, using credit wisely, making informed insurance decisions, and an overview of different financial assets used for personal investing.
Transfer: CSU
Click for Course Student Learning Outcomes

ECON 247  INDEPENDENT STUDIES: ECONOMICS  0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of Economics under the direction of an instructor.
Transfer: CSU
Click for Course Student Learning Outcomes

EET 119  STATE ELECTRICIAN TRAINEE TOPICS  2.00
3.00 hours per week: (3.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Presents topics related to job-site safety, OSHA require-
ments for safely working on energized circuits, reading blueprints, schematics, wiring & ladder diagrams. Network cabling topics including high bandwidth cable theory, applications and testing. Low voltage alarm system topics. Introduction to HVAC operational theory, general system testing and troubleshooting.

Click for Course Student Learning Outcomes

EET 213  ELECTRONICS FUNDAMENTALS  6.00
(Formerly ETCH213)
8.00 hours per week: (5.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Introduces a broad range of topics in electricity and electronics. Fundamentals of DC, AC, transistors, and digital logic are all addressed with heavy emphasis on basic concepts. Circuit analysis methods and troubleshooting will be studied using a hands-on approach.
Transfer: CSU
Click for Course Student Learning Outcomes

EET 220  INDUSTRIAL ELECTRONICS  4.00
(Formerly ETCH220)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Course includes basic topics related to industrial electronics. A brief review of analog circuits is expanded upon to develop more advanced circuit concepts. Topics include FET’s, SCR’s, basic components involved in motor control, DC and AC motors, and their controller circuits will be covered. Operational amplifiers will be covered, and their applications to sensor instrumentation. Transducers and applications to various sensors for heat, flow, force, etc. will be developed. Troubleshooting techniques for the above topics will be incorporated with each section.
Transfer: CSU
Click for Course Student Learning Outcomes

EET 222  FLUID AND PNEUMATIC TECHNOLOGY  4.00
(Formerly ETCH222)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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, compressors, and pressure regulators. Some advanced topics such as physical locomotion as related to horsepower and torque calculations. In depth applications of accumulator circuits, directional control valves, sequencers, pilots and solenoid controlled valves. Application of relay and PLC circuits address in laboratory and field environment.
Transfer: CSU
Click for Course Student Learning Outcomes

EET 228  PLC AUTOMATION AND SOLAR MONITORING  4.00
(Formerly ETCH228)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: EET 213

Presents basic topics related to Programmable Logic Controllers (PLC) and SCADA data acquisition systems. 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 instructions, 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, pneumatic, and Solar monitoring equipment. PLC peripherals and accessories will also be studied as well as SCADA software configuration.
Transfer: CSU
Click for Course Student Learning Outcomes

EET 257  COMPUTER INSTRUMENTATION AND CONTROL  4.00
(Formerly ETCH257)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: EET 224
Course includes topics related to basic process instrumentation and control developed in conjunction with Pacific Gas and Electric’s (PG&E) I&C technician 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
Click for Course Student Learning Outcomes

EET 267  POWER SYSTEMS AND ROTATING ELECTRICAL MACHINERY  4.00
(Formerly ETCH267)
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: EET 224
Course includes topics related to fundamental industrial electrical maintenance training developed in conjunction with Pacific Gas and Electric’s (PG&E) 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
Click for Course Student Learning Outcomes

EET 270  NUCLEAR POWER PROCESSES FOR TECHNICIANS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: MATH 127

Presents nuclear power plant maintenance technicians with an overview and quantitative description of the processes,
functions, and operational requirements of a modern nuclear power plant.

Transfer: CSU
Click for Course Student Learning Outcomes

EET 271 NUCLEAR POWER FUNDAMENTALS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: EET 270

Introduces the basic nuclear energy concepts, and describes the essential systems, subsystems, and components required for the safe and reliable production of electrical power at a modern nuclear power plant. Topics include: reactor core design and safety systems, cooling systems, heat exchangers, steam generation and power production, and properties of materials.

Transfer: CSU
Click for Course Student Learning Outcomes

EMERGENCY MEDICAL SERVICES

EMS 103 HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONAL 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only

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 3 time(s).
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EMS 105 PARAMEDIC PREPARATORY 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only

Prerequisites: EET 270

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 3 time(s).
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EMS 105L PARAMEDIC PREPARATORY LAB 0.50
1.80 hours per week: (0.00 lecture hours/1.80 lab hours)
Credit - Degree Applicable
P/NP Only

Corequisites: EMS 105L

Introduces the student to a ride-a-long experience exposing them to a working Paramedic on 911 systems in the field of EMS. The purpose is to watch how paramedics work with patients, Fire Departments, Police Departments, hospital staff, families and bystanders on scene, and nurses in the convalescent homes and other settings. Also, focuses on observation of how paramedics interact and work while on a call.

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for cardiopulmonary arrest. Based on current American Heart Association guidelines.

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EMS 107B PEDIATRIC ADVANCED LIFE SUPPORT 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: Current CPR for Health Care Providers Certificate AND NRAD 2040 or Must be a licensed MD, RN, Physician Assistant or Paramedic with prior ECG knowledge.

Teaches Pediatric Advanced Life Support knowledge and skills necessary to provide the appropriate early treatment for pediatric emergencies. Based on current American Heart Association guidelines.

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EMS 107C PREHOSPITAL TRAUMA LIFE SUPPORT 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: Must be a licensed Emergency Medical Responder, EMT, Paramedic, RN, Physician Assistant, or Physician. Military healthcare providers are also welcomed.

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.

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EMS 193 EMERGENCY MEDICAL SERVICES SPECIAL TOPIC 0.50 to 4.00
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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

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EMS 201 EMERGENCY MEDICAL TECHNICIAN 8.50
9.50 hours per week: (8.00 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Student must be 18 years of age by the first class meeting.

Have a current Healthcare Provider or Professional Rescuer CPR card
Advisories: NRAD 222 and ENGL 156

Meets the U.S. Department of Transportation Emergency Medical Technician (EMT) National Standard Curriculum for students desiring certification. State certification for an EMT is mandated as the minimal level of emergency medical training required to work on any ambulance and in most fire departments. Student must be 18 years of age by the first class meeting and is required to bring a valid CA driver’s license to show proof of age and a copy of current AHA issued Healthcare Provider or ARC issued CPR for the Professional Rescuer to first class meeting. Student is required to complete a drug screen and background check. Proof of immunizations will be needed prior to clinical. Uniform and other related materials will be required.

Transfer: CSU

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EMS 210 PARAMEDIC THEORY I 17.00
(Formerly EMS106)
18.00 hours per week: (16.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Admission into Paramedic Program

Apply knowledge of anatomy and physiology relevant to paramedic advanced life support training for emergency medical services. This includes cardiovascular, respiratory, pediatric, OB/GYN, and other emergency medical service training. Providing professional, non-discriminatory care for all people in their time of crisis. Perform as an EMS public servant Paramedic showing competency, ethical, confident entry-level healthcare. This course meets the minimum hours required to complete paramedic training in the state of California. Course content based on the guidelines and authority of the Title 22, Division 9, of the California Code of regulations and the US Department of Transportation Emergency Medical Technician-Paramedic Standard National Curriculum.

Transfer: CSU

Click for Course Student Learning Outcomes

EMS 211 PARAMEDIC THEORY II 5.00
(Formerly EMS107)
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: EMS 210
Corequisites: EMS 211L and EMS 212 and EMS 213A

Apply knowledge of anatomy and physiology relevant to paramedic advanced life support training for emergency medical services. The study of medical diseases and traumatic related injuries for Paramedic training which meets the requirements of the National Standard Curriculum. Includes ACLS, PALS, and PHTLS training and certification. Providing professional, non-discriminatory care for all people in their time of crisis. Perform as an EMS public servant Paramedic showing competency, ethical, confident entry-level healthcare. This course meets the minimum hours required to complete paramedic training in the state of California. Course content based on the guidelines and authority of the Title 22, Division 9, of the California Code of regulations and the US Department of Transportation Emergency Medical Technician-Paramedic Standard National Curriculum.

Transfer: CSU

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EMS 211L PARAMEDIC SKILLS 1.50
4.50 hours per week: (0.00 lecture hours/4.50 lab hours)
Credit - Degree Applicable
P/NP Only
Corequisites: EMS 211: and EMS 212 and EMS 213A

Apply knowledge of anatomy and physiology relevant to paramedic advanced life support training for emergency medical services. This includes cardiovascular, respiratory, traumatic injuries, pediatric, OB/GYN, and other emergency medical service training. This lab portion provides supervised application of cognitive knowledge and skills in acute patient care.

Transfer: CSU

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EMS 212  PARAMEDIC CLINICAL  3.50  
(Formerly EMS107L)  
10.50 hours per week: (0.00 lecture hours/ 10.50 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Corequisites: EMS 211 and EMS 211L and EMS 213A  
Provide clinical application of advance life support concepts in acute patient care for the Paramedic Student. Opportunities for increasing skill performance in the clinical (hospital) setting. This course meets the minimum hours required to complete paramedic training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes  

EMS 213A  PARAMEDIC INTERNSHIP I  2.00  
(Formerly EMS108A)  
6.00 hours per week: (0.00 lecture hours/6.00 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Corequisites: EMS 211 and EMS 211L and EMS 212  
Apply the internship 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. This includes cardiovascular, respiratory, traumatic injuries, pediatric, OB/GYN, and other emergency medical service training. This portion of paramedic training provides supervised application of cognitive knowledge and skills in acute patient care. EMS 213A and EMS 213B meet the minimum hours for required to complete paramedic internship training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes  

EMS 213B  PARAMEDIC INTERNSHIP II  7.00  
(Formerly EMS108B)  
21.00 hours per week: (0.00 lecture hours/ 21.00 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Prerequisites: EMS 213A  
Apply the last internship 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. This includes cardiovascular, respiratory, traumatic injuries, pediatric, OB/GYN, and other emergency medical service training. This portion of paramedic training provides supervised application of cognitive knowledge and skills in acute patient care. EMS 213A and EMS 213B meet the minimum internship hours required to complete paramedic training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes  

ECOL 406  COMPOSING YOUR LIFE STORY  0  
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
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.  
Click for Course Student Learning Outcomes  

ECOL 408  BEGINNING MUSIC ARTS FOR SENIORS  0  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
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.  
Click for Course Student Learning Outcomes  

ECOL 411  CREATIVE WRITING FOR SENIORS  0  
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
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.  
Click for Course Student Learning Outcomes  

ECOL 412  BRAIN LONGEVITY: WAYS TO PRESERVE AND RESTORE MEMORY ADULTS 50+  0  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
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.  
Click for Course Student Learning Outcomes  

ECOL 414  DRAWING FOR ADULTS 50+  0  
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
Provides clinical application of advance life support concepts in acute patient care for the Paramedic Student. Opportunities for increasing skill performance in the clinical (hospital) setting. This course meets the minimum hours required to complete paramedic training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes  

ECOL 407  RESTORE MEMORY ADULTS 50+  0  
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
Provides clinical application of advance life support concepts in acute patient care for the Paramedic Student. Opportunities for increasing skill performance in the clinical (hospital) setting. This course meets the minimum hours required to complete paramedic training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes  

ECOL 409  BRAIN LONGEVITY: WAYS TO PRESERVE AND RESTORE MEMORY ADULTS 50+  0  
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)  
Noncredit  
Non-credit Course  
Provides clinical application of advance life support concepts in acute patient care for the Paramedic Student. Opportunities for increasing skill performance in the clinical (hospital) setting. This course meets the minimum hours required to complete paramedic training in the state of California. Course content 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes
ECOL 417 LAWS AND PROGRAMS AFFECTING ADULTS 50+ 0
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Designed for the adult 50+, this class will presents 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.
Click for Course Student Learning Outcomes

ECOL 418 ADVENTURES IN READING FOR ADULTS 50+ 0
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 420 FINANCE: WILLS AND TRUSTS 0
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 421 GREAT LITERATURE: SELECTED READING 0
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 423 ART: WATERCOLOR 0
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 424 ART: PAINTING/OIL PAINTING 0
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Presents theories of color mixing and composition, and the process of critiquing. Students create a piece of work in oil or acrylic. This course is designed for adults over 50.
Repeatable.
Click for Course Student Learning Outcomes

ECOL 425 ART HISTORY 0
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 427 CREATIVE COOKING AND HEALTH EATING FOR ADULTS 50+ 0
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Designed for the adult 50+, this class present 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.
Click for Course Student Learning Outcomes

ECOL 428 FILM APPRECIATION 0
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

ECOL 429 PHOTOGRAPHY: EQUIPMENT AND TECHNIQUES FOR ADULTS 50+ 0
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Designed for the adult 50+, this class presents camera choices, in particular digital cameras; camera use; photo quality, including setting, composition and light; downloading, storing and sharing images; and documenting life events and travel.
Repeatable.
Click for Course Student Learning Outcomes
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Hours per week:</th>
<th>Lecture</th>
<th>Lab</th>
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<tr>
<td>ECOL 433</td>
<td>SENIOR SEMINAR FOR ADULT 50+</td>
<td>0</td>
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<td>Discover the influences and connections between</td>
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<td>ideas, values and concepts on a variety of topics</td>
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<td>of interest to the older adult. In a setting that</td>
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<td>encourages dialogue and interaction this class</td>
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<td>covers topics in areas such as, health, culture,</td>
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<td>philosophy, psychology, literature, current</td>
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<td>events, science and history. Students are</td>
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<td>encouraged to share and compare life experiences</td>
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<td>and learn about international, national and/or</td>
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<td>local events and issues.</td>
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<td>ECOL 439</td>
<td>COMPUTER BASICS FOR OLDER ADULTS 50+</td>
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<td>Designed for the adult 50+, this course</td>
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<td>introduces computer basics including machine</td>
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<td>functions, keyboard use, fundamental word</td>
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<td>processing, email and web browsing.</td>
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**ENGINEERING**

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<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Hours per week:</th>
<th>Lecture</th>
<th>Lab</th>
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<tr>
<td>ENGR 193</td>
<td>ENGINEERING SPECIAL TOPIC</td>
<td>0.50 to 4.00</td>
<td>0.50 - 4.00</td>
<td>0.50 - 4.00</td>
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<td>Examines a special topic in the field of study</td>
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<td>related to the discipline offering this course.</td>
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<tr>
<td>ENGR 210</td>
<td>COMPUTATIONAL METHODS FOR ENGINEERS</td>
<td>3.00</td>
<td>3.00</td>
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<td>Prerequisites: MATH 265A</td>
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<td>Advisories: PHYS 205A or PHYS 208A</td>
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<td></td>
<td>Methodology and techniques for solving</td>
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<td>engineering/science problems using numerical-</td>
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<td>analysis computer-application programs</td>
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<td>MATLAB and EXCEL. Technical computing and</td>
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<td>visualization of problems in mechanics,</td>
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<td>electrical circuits, thermal systems, fluid</td>
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<td>systems and other branches of engineering.</td>
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<td>Transfer: CSU; UC</td>
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<td>ENGR 217</td>
<td>CIRCUIT ANALYSIS</td>
<td>4.00</td>
<td>6.00</td>
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<td>Prerequisites: PHYS 208B and MATH 287</td>
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<td>Analyze and measurement of electrical circuits.</td>
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<td>Use of analytical techniques based on the</td>
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<td>application of circuit laws and network theorems.</td>
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<td>Analysis of DC and AC circuits containing</td>
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<td>resistors, capacitors, inductors, dependent</td>
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<td>sources, operational amplifiers, and/or switches.</td>
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<td>Natural and forced</td>
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<td>responses of first and second order RLC circuits.</td>
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<td>the use of phasors; AC power calculations;</td>
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<td>power transfer; and energy concepts.</td>
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<td>Transfer: CSU; UC</td>
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<tbody>
<tr>
<td>ENGR 226</td>
<td>ENGINEERING DRAWING I</td>
<td>4.00</td>
<td>6.00</td>
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<td>Introduction to engineering drawing using</td>
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<td>AutoCAD. Topics include geometric construction,</td>
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<td>orthographic projection, isometrics, sectionals,</td>
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<td>auxiliaries, descriptive geometry, dimensioning,</td>
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<td>and working drawings.</td>
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<td>Transfer: CSU; UC</td>
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<td>ENGR 228</td>
<td>DETAILED DESIGN WITH SOLID MODELING</td>
<td>3.00</td>
<td>5.00</td>
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<td>Prerequisites: ENGR 226</td>
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<td>Drawing parts and assemblies with solid modeling</td>
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<td>using current software and hardware. Techniques</td>
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<td>of advanced communication including weld symbols,</td>
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<td>threaded fasteners, dimensioning and tolerancing.</td>
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<td>Creation of design layouts and part models with</td>
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<td>varied configurations and dynamic assembly models.</td>
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<td>Introduction to section mass and inertia</td>
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<td>properties.</td>
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<td>ENGR 246</td>
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<td>Prerequisites: CHEM 201A and MATH 265A</td>
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<td>Corequisites: ENGR 246L</td>
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<td>Presents the fundamentals of the structure of</td>
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<td>Introduces physical and mechanical properties of</td>
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<td>materials including metals, alloys, ceramics,</td>
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<td>semi-conductors, and polymers. Provides a study</td>
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<td>of heat treatments, materials selection,</td>
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<td>corrosion phenomena, and equilibrium diagrams.</td>
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<td>Presents laboratory experiments on the heat</td>
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<td>treatment and resulting proper ties of</td>
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<td>metals, effects of cold deformation of</td>
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<td>equilibrium phase relationships, corrosion,</td>
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<td>mechanical behavior of polymers, as well as</td>
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<td>properties of semiconductor devices.</td>
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ENGR 247 INDEPENDENT STUDIES: ENGINEERING 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

ENGR 248 INTRODUCTION TO ENGINEERING 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Broad overview of the field of engineering, including professional societies and their student chapters, professional licensing and registration, professional codes of ethics, the elements of engineering design, and the scope of analysis and design activities undertaken by private and public sector civil design professionals.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGR 250 ENGINEERING STATICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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
Click for Course Student Learning Outcomes

ENGR 251 ENGINEERING DYNAMICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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
Click for Course Student Learning Outcomes

ENGR 252A STRENGTH OF MATERIALS I 2.00
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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
Click for Course Student Learning Outcomes

ENGR 252B STRENGTH OF MATERIALS II 2.00
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGR 252A
Study of stress and strain transformations, analysis of beam deflection and rotation, indeterminate beams, and column buckling.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGL 099 BASIC READING AND WRITING 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Prerequisites: Placement Exam or ENGL 099 or ESL 099E
Provides a basic course in college reading and writing with individual attention to sentence structure, paragraph and essay structure, grammar, and critical thinking skills.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGL 193 ENGLISH SPECIAL TOPICS 0.50 to 4.00
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

ENGL 201A ENGLISH COMPOSITION 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Placement exam or ENGL 100
Provides a study of and practice in the use of language and writing of argumentative/analytical essays and research papers.
Transfer: CSU; UC
C-ID ENGL 100
Click for Course Student Learning Outcomes

ENGL 201B COMPOSITION: INTRODUCTION TO LITERATURE/CRITICAL THINKING 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Placement exam or ENGL 156
C-ID ENGL 100
Provides a study of and practice in the use of language and writing of argumentative/analytical essays and research papers.
Transfer: CSU; UC
C-ID ENGL 100
Click for Course Student Learning Outcomes
Emerson, Thoreau, Whitman, and Dickinson are studied. Cooper, Irving, Bryant, Melville, Hawthorne, Longfellow, Such writers as Bradstreet, Paine, Franklin, Jefferson, Poe, Cooper, Irving, Bryant, Melville, Hawthorne, Longfellow, Emerson, Thoreau, Whitman, and Dickinson are studied.

Cooper, Irving, Bryant, Melville, Hawthorne, Longfellow, Such writers as Bradstreet, Paine, Franklin, Jefferson, Poe, Cooper, Irving, Bryant, Melville, Hawthorne, Longfellow, Emerson, Thoreau, Whitman, and Dickinson are studied.

The study of major America writers from the Civil War up through contemporary times. Includes writers such as Twain, Howells, Crane, 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.

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.

Introduces 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, Thoreau, Whitman, and Dickinson are studied.

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.

Introduces students to formal methods for analyzing literature and film, providing them with a discipline-specific vocabulary, teaching them a variety of interpretive strategies and theories, and developing their skills in critical thinking during reading/viewing, class discussion, panel presentation, formal exam, and essay activities. Reading and film texts will represent a variety of genres, cultures, historical periods, and theoretical perspectives.

Introduces students to formal methods for analyzing literature and film, providing them with a discipline-specific vocabulary, teaching them a variety of interpretive strategies and theories, and developing their skills in critical thinking during reading/viewing, class discussion, panel presentation, formal exam, and essay activities. Reading and film texts will represent a variety of genres, cultures, historical periods, and theoretical perspectives.
ENGL 217 LITERATURE BY WOMEN 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: ENGL 210A

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 Louie Erdrich.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGL 231 CREATIVE WRITING 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 210A

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
C-ID ENGL 206
Click for Course Student Learning Outcomes

ENGL 237 INTRODUCTION TO FILM STUDIES AND AESTHETICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 210A

Introduces the close analysis of films ranging from the era of silent film to contemporary times. By examining the form, content, aesthetics, and meaning of a diverse series of films, students will be able to identify the historical and cultural significance of this art form. Topics include critical analysis of the function of visual design, editing, sound, genre forms, and ideology in a variety of narrative and non-narrative films produced by key filmmakers in cinema history.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGL 245A SURVEY OF WORLD LITERATURE 1 3.00
(Formerly ENGL244A)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 210A

Focuses on a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from antiquity to the mid or late seventeenth century; May include such readings as The Epic of Gilgamesh, the Odyssey, excerpts from the Old Testament, excerpts from the Koran, Lysistrata, Allegory of the Cave, the Aeneid, Marcus Aurelius's Meditations, the Inferno, the Canterbury Tales, and Don Quixote.
Transfer: CSU; UC
C-ID ENGL 140
Click for Course Student Learning Outcomes

ENGL 245B SURVEY OF WORLD LITERATURE 2 3.00
(Formerly ENGL244B)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 210A

Focuses on a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, South America, and other areas, from the mid or late seventeenth century to the present. May include readings from Rousseau, Johnson, Swift, the English Romantics, Hawthorne, Whitman, Dickinson, Chekhov, Tolstoy, Conrad, Kafka, Hughes, Baldwin, Stevens, Eliot, Woolf, Mishima, Neruda, Borges, Rushdie, Soyinka, and Silko.
Transfer: CSU; UC
C-ID ENGL 145
Click for Course Student Learning Outcomes

ENGL 246A SURVEY OF BRITISH LITERATURE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 210A

Presents a survey of British literature from the Middle Ages through the 18th century. Introduces the study of significant British writers and texts against their historical backgrounds. Such writers as Margery Kempe, Julian of Norwich, Chaucer, Spenser, Shakespeare, Barbauld, Queen Elizabeth I, Donne, Milton, Swift, Pope, Montagu, Haywood, Johnson, and Austen will be studied.
Transfer: CSU; UC
C-ID ENGL 160
Click for Course Student Learning Outcomes

ENGL 246B SURVEY OF BRITISH LITERATURE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 210A

Presents a survey of British literature from the Middle Ages through the 20th century. Focuses on the Romantic Period through the 20th century, focusing on such writers as William and Dorothy Wordsworth, Anna Letitia Barbauld, Olaudah Equiano, Mary and Percy Shelley, John Keats, Elizabeth Barrett Browning, Matthew Arnold, Elizabeth Gaskell, W. B. Yeats, T. S. Eliot, D. H. Lawrence, James Joyce, and Virginia Woolf.
Transfer: CSU; UC
C-ID ENGL 165
Click for Course Student Learning Outcomes

ENGL 247 INDEPENDENT STUDIES: ENGLISH 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
P/NP Only,
Letter Grade Only

Provides an opportunity for an in-depth study or a practi-
cum experience by an individual student in a selected topic of English under the direction of an
Transfer: CSU; UC
Click for Course Student Learning Outcomes

ENGLISH AS A SECOND LANGUAGE

ESL 025B INTERMEDIATE LEVEL CONVERSATION 2.00 to 3.00
2.00 - 3.00 hours per week; (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: 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 Passing grade.
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in everyday English-speaking situations. Prepares students for ESL 035A, 035B or 035C.
Click for Course Student Learning Outcomes

ESL 025C INTERMEDIATE LEVEL CONVERSATION 2.00 to 3.00
2.00 - 3.00 hours per week; (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: 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 Passing grade.
Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in everyday English-speaking situations. Prepares students for ESL 035A, 035B or 035C.
Click for Course Student Learning Outcomes

ESL 035B ADVANCED LEVEL CONVERSATION 2.00 to 3.00
2.00 - 3.00 hours per week; (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: 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 Passing grade.
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. Prepares students for ESL 035A, 035B or 035C.
Click for Course Student Learning Outcomes

ESL 035C ADVANCED LEVEL CONVERSATION 2.00 to 3.00
2.00 - 3.00 hours per week; (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: 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 Passing grade.
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. Prepares students for ESL 035A, 035B or 035C.
Click for Course Student Learning Outcomes

ESL 037 ACADEMIC LISTENING AND SPEAKING 2.00 to 3.00
2.00 - 3.00 hours per week; (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: Passing grade in ESL 035A, ESL 035B, or ESL 035C or placement into ESL 099E
Focuses on developing academic listening comprehension and speaking skills that are required in college courses and academic settings. May be taken concurrently with ESL 047 and ESL 099E or ESL 100E.
Click for Course Student Learning Outcomes

ESL 043 INTERMEDIATE GRAMMAR 3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ESL 002 with a grade of Pass or a qualifying score on ESL placement assessment
Focuses on building English language skills for speakers of other languages with an emphasis on grammar at the intermediate level. Provides instruction in present, past, and future tenses. Prepares students for ESL 044. May be taken concurrently with ESL 053, ESL 025A, 025B, or 025C.
Click for Course Student Learning Outcomes

ESL 044 HIGH-INTERMEDIATE GRAMMAR 3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ESL 043 with a grade of C or better or a qualifying score on ESL placement assessment
Focuses on building English language skills for speakers of other languages with an emphasis on grammar at the high-intermediate level. Provides instruction in present perfect, gerunds and infinitives, adjective clauses, and active vs. passive voice. May be taken concurrently with ESL 054, ESL 035A, 035B, or 035C.
Click for Course Student Learning Outcomes

ESL 047 ADVANCED GRAMMAR 3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Prerequisites: Qualifying score on the ESL placement test
Advisories: ESL 044 and/or ESL 054
Focuses on building English language skills for speakers of other languages with an emphasis on advanced grammatical structures. Provides instruction in verb forms, verb tenses, modals, noun clauses, and conditional sentences. Prepares students for transfer level coursework. May be taken concurrently with ESL 99E or ESL 100, and/or ESL 037.
Click for Course Student Learning Outcomes

ESL 053 INTERMEDIATE READING AND WRITING 4.00 to 6.00
4.00 - 6.00 hours per week; (4.00 - 6.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ESL 002 with a grade of C or better or a qualifying score on the ESL placement test
Focuses on building English language skills for speakers of other languages with an emphasis on reading and writing at the intermediate level. Provides instruction in sentence and paragraph writing. Introduces reading comprehension skills and strategies. This course prepares students for ESL 054.
May be taken concurrently with ESL 043, ESL 025A, 025B, or 025C.
Click for Course Student Learning Outcomes

**ESL 054  HIGH-INTERMEDIATE READING AND WRITING  4.00 to 6.00**

(Formerly ESL006A, ESL006)
4.00 - 6.00 hours per week: (4.00 - 6.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ESL 053 with a C or better or a qualifying score on the ESL placement test.
Focuses on building English language skills for speakers of other languages with an emphasis on reading and writing at the high-intermediate level. Provides instruction in paragraph writing. Develops reading comprehension skills and strategies. This course prepares students for ESL 099E. May be taken concurrently with ESL 044, ESL 035A, 035B, or 035C.
Click for Course Student Learning Outcomes

**ESL 099E  ADVANCED READING AND WRITING  4.00 to 6.00**

4.00 - 6.00 hours per week: (4.00 - 6.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ESL 054 or qualifying score on the ESL or English placement test.
Focuses on building English language skills for speakers of other languages with an emphasis on reading, writing, and critical thinking at the advanced level. Provides instruction in essay writing and academic reading. This course prepares students for English 156. May be taken concurrently with ESL 044, ESL 035A, 035B, or 035C.
Click for Course Student Learning Outcomes

**ESL 193  ENGLISH AS A SECOND LANGUAGE SPECIAL TOPIC  0.50 to 4.00**

0.00 - 0.00 hours per week: (0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

**ESL 701  INTRODUCTION TO LITERACY  0 to 0**

4.50 - 6.00 hours per week: (4.50 - 6.00 lecture hours/0.00 lab hours)
Noncredit
P/NP Only,
Non-credit Course
Develops students? English literacy and study skills at the introductory literacy level. Focuses on basic language necessary to function successfully in everyday situations.
Repeatable.
Click for Course Student Learning Outcomes

**ESL 702  LITERACY  0 to 0**

4.50 - 6.00 hours per week: (4.50 - 6.00 lecture hours/0.00 lab hours)
Noncredit
P/NP Only,
Non-credit Course
Prerequisites: ESL 701 or ESL placement test
Develops students? English literacy and study skills at the beginning literacy level. Builds basic reading, writing, listening and speaking skills.
Repeatable.
Click for Course Student Learning Outcomes

**ESL 703  BEGINNING-LOW INTEGRATED SKILLS  0 to 0**

4.50 - 6.00 hours per week: (4.50 - 6.00 lecture hours/0.00 lab hours)
Noncredit
P/NP Only,
Non-credit Course
Prerequisites: ESL 702 or ESL placement test
Develops reading, writing, listening and speaking skills at the low-beginning level.
Repeatable.
Click for Course Student Learning Outcomes

**ESL 704  BEGINNING-HIGH INTEGRATED SKILLS  0 to 0**

4.50 - 6.00 hours per week: (4.50 - 6.00 lecture hours/0.00 - 0.00 lab hours)
Noncredit
Non-credit Course
Prerequisites: ESL 703 or ESL Placement test
Develops reading, writing, listening and speaking skills at the beginning-high level.
Repeatable.
Click for Course Student Learning Outcomes

**ESL 705  ESL INTERMEDIATE HIGH - LEVEL 5  0**

4.50 hours per week: (4.50 lecture hours/0.00 lab hours)
Noncredit
P/NP Only,
Non-credit Course
Prerequisites: ESL 703 or ESL Placement test
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 time(s).
Click for Course Student Learning Outcomes

**ESL 706  ESL ADVANCED - LEVEL 6  0**

4.50 hours per week: (4.50 lecture hours/0.00 lab hours)
Noncredit
P/NP Only,
Non-credit Course
Prerequisites: ESL 705 or ESL Placement test
Provides students with basic skills in English at the advanced level through listening/speaking practice. Life skills, grammar, pronunciation, vocabulary, history, government, and culture are taught.
Repeatable 3 time(s).
Click for Course Student Learning Outcomes

**ESL 707  U. S. CITIZENSHIP  3.00**

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes

**ESL 709  NONCREDIT ESL PROGRAM ORIENTATION  0**

0.17 hours per week: (0.17 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Prerequisites: ESL 701 or ESL placement test
Orients students to the Noncredit English-as-a-Second Language program and overview of educational options.
Includes assessing skills for the program and review of student support services.

Click for Course Student Learning Outcomes

**ESL 725 ESL CONVERSATION, INTERMEDIATE**

(Formerly ESL025A)

2.00 - 3.00 hours per week: (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)

Noncredit

P/NP Only,

Non-credit Course

Advisories: ESL 704 or qualifying score on the ESL placement test

Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the intermediate-level student to function in everyday English-speaking situations (formerly ESL 025). Prepares students for ESL 735. May be taken concurrently with ESL 705 or ESL 706.

Repeatable.

Click for Course Student Learning Outcomes

**ESL 735 ESL CONVERSATION, HIGH INTERMEDIATE**

(Formerly ESL035A)

2.00 - 3.00 hours per week: (2.00 - 3.00 lecture hours/0.00 - 0.00 lab hours)

Noncredit

P/NP Only,

Non-credit Course

Advisories: ESL 725 or qualifying score on the ESL placement test

Focuses on communication skills in listening comprehension and speaking for speakers of other languages and enables the high-intermediate level student to function in academic, professional and everyday English-speaking situations (formerly ESL 035). May be taken concurrently with ESL 705 or ESL 706.

Repeatable.

Click for Course Student Learning Outcomes

---

**FAMILY STUDIES**

**FMST 193 FMST SPECIAL TOPIC**

0.50 to 4.00

1.50 -12.00 hours per week: (0.00 - 0.00 lecture hours/1.50 -12.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

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

Click for Course Student Learning Outcomes

**FMST 202 CHILD, FAMILY AND COMMUNITY**

3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Examines the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Same as ECE 202. Meets Title XXII requirements: DS 2.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

**FMST 205 LIFE MANAGEMENT**

3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Articulates skills to understand and utilize internal and external resources to function effectively in society now and in the future. Major topics covered in the course include: socio-cultural forces that effect personal values, beliefs, and goals; decision making skills, time management and stress-reduction strategies, and conflict resolution; as well as methods for improving self-esteem, self-understanding, and interpersonal relationships.

Transfer: CSU

Click for Course Student Learning Outcomes

**FMST 210 INTRODUCTION TO THE FIELD OF HUMAN SERVICES**

3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: ENGL 156

Provides a comprehensive overview of the field of Human Services. Outlines professional skills, prevention and intervention strategies, and multicultural competencies that support individual and family functioning. Presents an overview of support and advocacy services for individuals and families.

Transfer: CSU

Click for Course Student Learning Outcomes

**FMST 212 HUMAN DEVELOPMENT: LIFE SPAN**

3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade Only

Advisories: 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

C-ID PSY 180

Click for Course Student Learning Outcomes

**FMST 213 ETHNIC IDENTITY AND DEVELOPMENTAL PATTERNS**

3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Interrogates 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

Click for Course Student Learning Outcomes
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FMST 214</td>
<td>FAMILY, RELATIONSHIPS AND INTIMACY</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: ENGL 156</td>
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<td>Scrutinizes sociological, psychological and cross-cultural concepts of intimate relationships and the family unit. Focuses on diversity within and the development of committed relationships and the family unit. Emphasizes intimacy dynamics, communication processes, and assessment of functionality and wellness.</td>
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<td>C-ID SOCI 130</td>
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<td>FMST 215</td>
<td>DEVELOPMENTAL PATTERNS OF WOMEN</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: ENGL 156</td>
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<td>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.</td>
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<tr>
<td>FMST 216</td>
<td>THE STUDY OF PARENTING: THEORY AND PRACTICE</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: ENGL 156</td>
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<td>Presents background for understanding parent-child relationships in the changing social environment. Examines common problems in child rearing, and cultural influences on parenting. Emphasizes development of a parenting philosophy and development of effective parenting behavior across the lifespan.</td>
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<td>FMST 218</td>
<td>HUMAN SEXUALITY: EXPERIENCE &amp; EXPRESSION</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Studies the complex psychological, sociological and physiological aspects of human sexuality. Introduces theoretical frameworks that explain sexual development and identity; sexual behaviors; gendered patterns and gender roles; and sexual satisfaction. Examines the societal constructions that define ab/normal sexual expression and the changing definitions of subjective experiences. Discusses sexual response processes, dysfunctions, reproductive health, and sexual violence and healing pathways.</td>
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<tr>
<td>FMST 247</td>
<td>INDEPENDENT STUDIES: FAMILY STUDIES</td>
<td>0.50 to 2.00</td>
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<td>1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)</td>
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<td>Prerequisites: 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 a practicum experience by an individual student in a selected topic of family studies under the direction of an instructor.</td>
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<td>FMST 270</td>
<td>INTRO TO ADDICTION STUDIES: ADDICTION AND THE COMMUNITY</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Explores historical, psychological, and sociological perspectives on the use, abuse, and social control of psychoactive drugs. Presents in depth analysis of the theoretical models of the biopsychosocial nature of addiction, the dynamics of addiction, the impact of addiction on children, families and society with emphasis on special populations, contemporary treatment and prevention approaches, and the addiction counseling profession.</td>
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<td>FMST 271</td>
<td>GROUP PROCESS AND PRACTICE</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: FMST 210 and FMST 270</td>
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<td>Presents and develops basic competency in theory and techniques of group process and practice used in the helping professions including task-oriented, psychoeducational, counseling, and psychotherapy groups with specific populations.</td>
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<td>FMST 272</td>
<td>DRUG PREVENTION AND EDUCATION</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: FMST 270</td>
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<td>Presents and develops basic competency in the history, theories, research, and current approaches to substance abuse education and prevention including public policy, media, age, gender, ethnic and culture-specific considerations and models, environmental risk reduction, harm reduction, and healthy alternatives to substance use.</td>
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<td>FMST 278</td>
<td>FAMILIES AND ADDICTION</td>
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<td>3.00 hours per week: (3.00 lecture hours/0.00 lab hours)</td>
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<td>Advisories: FMST 270 and ENGL 156</td>
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<td>Examines common patterns of family structure and functional and wellness.</td>
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</table>
Examine topics often correlated with substance abuse and addiction including the major types of family systems and dynamics. Reviews basic clinical practice including therapeutic approaches, skills, and techniques for effective intervention and treatment modalities for both individuals and the family system.

Transfer: CSU
Click for Course Student Learning Outcomes

**FTVE 193  FILM, TELEVISION AND ELECTRONIC MEDIA SPECIAL TOPIC**  
0.50 to 4.00  
(Formerly BCST193)  
1.50 - 12.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 12.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes

**FTVE 212  BEGINNING RADIO PRODUCTION** 3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Explores basic editing techniques in radio production. Students will gain a basic understanding of beginning radio production. This includes the use of microphones, audio editing software, digital audio production, radio program formats, basic broadcast writing and announcing skills needed to professionally produce audio programs, soundtracks, and voice overs.  
Click for Course Student Learning Outcomes

**FTVE 221  INTRODUCTION TO ELECTRONIC MEDIA** 3.00  
(Formerly BCST221)  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: ENGL 156  
Presents the history, structure, function, economics, content and evolution of radio, television, film, the Internet, and new media, including preexisting formats, social, political, regulatory, ethical and occupational impact of the electronic media with cross-cultural and international comparisons. Topics covered include technological development, programming, ratings, social, legal and economic aspects of electronic media in America with cross-cultural, international comparisons.  
Transfer: CSU  
Click for Course Student Learning Outcomes

**FTVE 223  VIDEO OPERATIONS** 3.00  
(Formerly BCST223)  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: 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  
Click for Course Student Learning Outcomes

**FTVE 224A  AUDIO PRODUCTION** 3.00  
(Formerly BCST224A)  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Introduces the theory and practice of audio production for radio, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software.  
Transfer: CSU  
Click for Course Student Learning Outcomes
FTVE 225A  VIDEO STUDIO PRODUCTION  
3.00  
(Formerly BCST225A)  
7.00 hours per week: (1.00 lecture hours/6.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: FTVE 223  
Provides an introduction to the theory, terminology, and operation of a multi-camera television studio and control room. Topics include directing, theory and operation of camera and audio equipment, studio signal flow, switcher operation, fundamentals of lighting, graphics, video control and video recording and real-time video production.  
Transfer: CSU  
Click for Course Student Learning Outcomes

FTVE 225B  SINGLE CAMERA TV PRODUCTION AND EDITING  
3.00  
(Formerly BCST225B)  
7.00 hours per week: (1.00 lecture hours/6.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: FTVE 223 completion or concurrent enrollment  
Provides an introduction to the theory, terminology, and operation of single camera video production including composition, editing techniques, camera operation, portable lighting, video recording, audio control, basic editing, and graphics; includes the aesthetics and fundamentals of scripting, producing, and directing on location, postproduction, and exhibition/distribution.  
Transfer: CSU  
C-ID FTVE 130  
Click for Course Student Learning Outcomes

FTVE 226  WRITING FOR ELECTRONIC MEDIA  
3.00  
(Formerly BCST226)  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Advisories: ENGL 201A  
Presents an introduction to writing for film and electronic media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes in film and electronic media. Includes a writing evaluation component as a significant part of the course requirement.  
Transfer: CSU  
Click for Course Student Learning Outcomes

FTVE 227  PRINCIPLES OF RADIO BROADCAST PERFORMANCE  
0.50 to 3.00  
(Formerly BCST227)  
0.50 - 3.00 hours per week: (0.50 - 3.00 lecture hours/0.00 - 0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Explores 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.  
Transfer: CSU  
Click for Course Student Learning Outcomes

FTVE 230A  AUDIO/VIDEO INTERNSHIP  
3.00  
(Formerly BCST230A)  
9.00 hours per week: (0.00 lecture hours/9.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Prerequisites: FTVE 224A or FTVE 225A or FTVE 225B and approval of production company  
Provides practical supervised work experience as a regular staff member in a local area media company. May include work in a local radio station, television station, cable company or marketing firm in audio and/or video production. Only students who have been given permission from the chair of the Film, Television, and Electronic Media department may be allowed to interview for the internship program.  
Transfer: CSU  
Click for Course Student Learning Outcomes

FTVE 247  INDEPENDENT STUDIES: FILM, TELEVISION AND ELECTRONIC MEDIA  
0.50 to 2.00  
(Formerly BCST247)  
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Prerequisites: 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 film, television, and electronic media under the direction of an instructor.  
Transfer: CSU  
Click for Course Student Learning Outcomes

FRENCH

FR 110  BEGINNING FRENCH CONVERSATION AND READING  
5.00  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Presents basic vocabulary and pronunciation needed to converse in French. Students will also develop listening comprehension, reading skills and knowledge and understanding of French-speaking cultures.  
Click for Course Student Learning Outcomes

FR 120  FRENCH CONVERSATION AND READING  
5.00  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: FR 110 or equivalent  
Presents a continuation of FR 110 with intensive practice of oral communication skills and students will develop listening and reading strategies to access authentic cultural information.  
Click for Course Student Learning Outcomes

FR 193  FRENCH SPECIAL TOPIC  
0.50 to 4.00  
0.00 - 0.00 hours per week: (0.00 lecture hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Examines a special topic in the field of study related to the discipline offering this course.  
Click for Course Student Learning Outcomes
## FRENCH

**FR 201 FRENCH I**

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5.00 hours per week: (5.00 lecture hours/0.00 lab hours)

Letter Grade or P/NP

Presents a topic-based introduction to contemporary French language and culture with an emphasis on listening comprehension, oral interaction, culture-centered reading and writing basic French. Social and cultural aspects of the French-speaking world are presented along with some of the most essential structures and vocabulary.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

**FR 202 FRENCH II**

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5.00 hours per week: (5.00 lecture hours/0.00 lab hours)

Letter Grade or P/NP

Prerequisites: FR 201 or equivalent

Presents a continuation of FR 201 with intensive, topic-based practice in oral interaction, culture-centered reading and writing, and listening comprehension using recordings and video clips from the French-speaking world.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

**FR 203 FRENCH III**

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5.00 hours per week: (5.00 lecture hours/0.00 lab hours)

Letter Grade or P/NP

Prerequisites: FR 202 or equivalent

Presents a continuation of FR 202 with intensive, topic-based practice in listening comprehension, cultural readings and writing, and oral interaction including group discussion.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

**FR 247 INDEPENDENT STUDIES: FRENCH**

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1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)

Letter Grade or P/NP

Prerequisites: 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.

Transfer: CSU

Click for Course Student Learning Outcomes

## GEOGRAPHY

**GEOG 201 PHYSICAL GEOGRAPHY**

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3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Letter Grade or P/NP

Advisories: 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

Click for Course Student Learning Outcomes

**GEOG 202 CULTURAL GEOGRAPHY**

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3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Letter Grade or P/NP

Advisories: 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

Click for Course Student Learning Outcomes

**GEOG 203 GEOGRAPHY SPECIAL TOPIC**

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0.50 to 4.00 hours per week: (0.00 lecture hours)

Letter Grade or P/NP

Advisories: ENGL 156

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

Click for Course Student Learning Outcomes

**GEOL 193 GEOLOGIC FIELD TECHNIQUES**

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1.00 hours per week: (0.50 lecture hours/2.22 lab hours)

Letter Grade Only

Investigate methods of field geologic mapping and data collection.

Click for Course Student Learning Outcomes

**GEOL 210 PHYSICAL GEOLOGY**

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4.00 hours per week: (3.00 lecture hours/3.00 lab hours)

Letter Grade or P/NP

Advisories: ENGL 156 and MATH 123

Introduces the principles of geology with emphasis on Earth processes. Explores the evidence for the internal structure and origin of the Earth and the processes that change and shape it. Laboratory component focuses on the identification of rocks and minerals, topographic and geologic map interpretation to understand the work of water, wind, ice and gravity and the effects of tectonic and volcanic activity.

Transfer: CSU; UC

Click for Course Student Learning Outcomes

**GEOL 211 HISTORICAL GEOLOGY**

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4.00 hours per week: (3.00 lecture hours/3.00 lab hours)

Letter Grade or P/NP

Advisories: ENGL 156 and MATH 123

Introduces the principles of geology with emphasis on Earth processes. Explores the evidence for the internal structure and origin of the Earth and the processes that change and shape it. Laboratory component focuses on the identification of rocks and minerals, topographic and geologic map interpretation to understand the work of water, wind, ice and gravity and the effects of tectonic and volcanic activity.

Transfer: CSU; UC

Click for Course Student Learning Outcomes
Presents the theory of the origin and evolution of the earth and its lifeforms; emphasizing global tectonics, methods of geologic dating, stratigraphy, paleontology, and paleogeography of North America.

Transfer: CSU; UC
C-ID GEOL 111
Click for Course Student Learning Outcomes

**GEOL 212  GEOLOGIC HAZARDS, MAN, AND THE ENVIRONMENT**  3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156

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  
Click for Course Student Learning Outcomes

**GEOL 220  GEOLOGY OF CALIFORNIA**  3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156

Introduces the principles of geology and the tectonic/geologic evolution of California. Emphasizes the processes responsible for shaping the environment including seismology, and volcanology, the fossil record, and the mineral/energy resources of the state.

Transfer: CSU; UC  
C-ID GEOL 200  
Click for Course Student Learning Outcomes

**GEOL 225  INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**  3.00  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Introduces the concepts, techniques, and tools of a Geographic Information System (GIS), including data acquisition, management, manipulation, spatial analysis, and cartographic output. Emphasizes training in the use of technology and software in order to provide students with skills and a conceptual base 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 development of spatial reasoning skills with applications in fields such as natural hazards, environmental assessment, and resource management.

Transfer: CSU  
C-ID GEOG 155  
Click for Course Student Learning Outcomes

**GEOL 229A  GEOLOGICAL SCIENCE FIELD STUDIES**  1.00  
2.72 hours per week: (0.50 lecture hours/2.22 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Prerequisites: GEOL 210 or GEOL 211 or GEOL 220

Presents an on-site field study of Yosemite, the Sierra Nevada, Mono Basin, Long Valley Caldera, and Owens Valley area.

Transfer: CSU; UC  
Click for Course Student Learning Outcomes

**GEOL 229B  GEOLOGICAL SCIENCE FIELD STUDIES**  1.00  
2.72 hours per week: (0.50 lecture hours/2.22 lab hours)  
Credit - Degree Applicable  
Letter Grade Only  
Prerequisites: GEOL 210 or 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  
Click for Course Student Learning Outcomes

**GEOL 240  GEOLOGY TEACHING ASSISTANT**  0.50 to 2.00  
0.50 - 2.00 hours per week: (0.50 - 2.00 lecture hours/0.00 - 0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: Instructor approval

Prepares students to facilitate geology courses by developing tutorial skills, understanding of the learning process, and effectiveness as a teaching assistant.

Transfer: CSU  
Click for Course Student Learning Outcomes

**GERMAN**

**GER 110  BEGINNING GERMAN CONVERSATION AND READING**  5.00  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Presents an introduction to contemporary German with emphasis on basic vocabulary and pronunciation skills needed to converse in German, interpretive communication skills and awareness of the links between language and culture.

Click for Course Student Learning Outcomes

**GER 120  GERMAN CONVERSATION AND READING**  5.00  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: GER 110 or equivalent

Presents a continuation of GER 110 with emphasis on interpersonal and interpretive communication skills, including reading strategies for authentic cultural material and expanding awareness of the relationship between language and culture.

Click for Course Student Learning Outcomes

**GER 193  GERMAN SPECIAL TOPIC**  0.50 to 4.00  
0.00 - 0.00 hours per week: (0.00 lecture hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

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

Click for Course Student Learning Outcomes
GER 201 GERMAN I 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a topic-centered introduction to contemporary German language and culture with emphasis on interpersonal, interpretive and presentational communication skills and awareness of the links between language and culture.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

GER 202 GERMAN II 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: GER 201 or equivalent
Presents a continuation of GER 201 with emphasis on interpersonal, interpretive and presentational communication skills, including reading strategies for authentic cultural material and expanding awareness of the relationship between language and culture.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

GER 203 GERMAN III 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: GER 202 or equivalent
Presents a continuation of GER 202 with further development of interpersonal, interpretive, and presentational communication skills and continued awareness of cultural implications of language use.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

GER 204 GERMAN IV 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: GER 203 or equivalent
Presents a continuation of GER 203 with emphasis on interpersonal, interpretive and presentational communication skills involving abstract topics and continued development of cultural knowledge and understanding based on social and historical context.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

GER 247 INDEPENDENT STUDIES: GERMAN 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 German under the direction of an instructor.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HEED 193 HEALTH EDUCATION SPECIAL TOPIC 0.50 to 4.00
0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade Only
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

HEED 202 HEALTH EDUCATION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents the major health topics and provides an introduction to health careers, emphasizing the prevention of non-communicable conditions, promotion of health and fitness throughout the lifespan, and the application of current research in health to affect behavior and lifestyle changes. Health issues will be discussed from a multi-dimensional perspective using relevant examples from a variety of diverse populations, including predominant ethnic minority groups.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HEED 203 WOMEN’S HEALTH ISSUES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents major health issues of special significance to women cross culturally. Emphasis will be placed on current trends in the prevention of chronic diseases and health disorders, the promotion of a positive body image, and self-empowerment. Identification of significant cultural obstacles of access for women’s health care by non-dominant groups are presented. In addition, traditional, as well as, experiential and cooperative teaching/learning strategies will be used to explore the application of lifestyle changes to individual health beliefs and practices.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HEED 204 STANDARD FIRST AID AND CPR 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Provides information and training in the immediate and temporary emergency care in case of accident or illness. The student will learn to assess a victim’s condition and incorporate proper treatment. Standard first aid, C.P.R., and AED certificate examination(s) will be granted upon successful completion of requirements.
Transfer: CSU; UC
C-ID KIN 101
Click for Course Student Learning Outcomes
HEED 206 HEALTH ASPECTS OF DRUG USE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents an in depth analysis of the major health problems associated with the use, misuse, and abuse of drugs including herbs/plants, performance enhancing, over-the-counter, prescription, controlled, and designer drugs. Emphasizes the metabolism of drugs, drug-drug and herb- interactions, addiction from an age, gender, and ethnic perspective, and the impact of substance use and abuse on a variety of cultures.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HEED 208 MULTICULTURAL HEALTH 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Examines the major health problems facing non-dominant/ minority ethnic groups related to acculturation, assimilation, and biological variations. Various health beliefs systems, folk remedies, health practices, and attitudes toward health will be analyzed to promote prejudice reduction and understanding of cultural differences. A variety of non-traditional and experiential teaching/learning strategies will be used to examine alternative approaches to healthy lifestyles and to develop a personal health plan.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HEED 210 COMMUNITY HEALTH 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents environmental, biological and socio-cultural determinants of health quality in a given community. Areas of emphasis include: personal and community health behavior, epidemiology of infectious and chronic disease, methods of community health assessment and investigation, health promotion, environmental health, and the organization, implementation and regulation of community health efforts. Within these topics physiological, psychological and spiritual influences of health will be addressed including accessibility, availability and community education toward disease prevention of special populations within a given community. A variety of community-based activities will afford students the opportunity to experience and propose innovative solutions to local community health problems identified.
Transfer: CSU
Click for Course Student Learning Outcomes

HESD 404 HSD NON-CREDIT BASIC SKILLS, BIOLOGY 0
(Formerly BIO401)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
-Designed to inculcate the student with the living world and its systems. Introduces concepts of Cell Biology, Genetics, Evolution and Physiology will be presented. This is an elective course towards a high school diploma.
Click for Course Student Learning Outcomes

HESD 406 HSD NON-CREDIT BASIC SKILLS ECONOMICS 0
(Formerly ECON401)
4.00 hours per week: (3.00 lecture hours/1.00 lab hours)
Noncredit
Letter Grade or P/NP
Introduce students to microeconomics, macroeconomics, and international economic relationships. Presents vocabulary and the technical knowledge needed for an understanding of economic issues, both in the media and at the collegiate level of study. Provides the student with information and analytical tools useful in developing a personal system of values in regard to economic issues. This is an elective course towards a high school diploma.
Click for Course Student Learning Outcomes

HESD 407 HSD NON-CREDIT BASIC SKILLS WORLD HISTORY 0
(Formerly HIST401)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
Introduces major turning points that shaped the modern world, from the late eighteenth century through the present, including the cause and course of two world wars. Tracing the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. Extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Develop an understanding of current world issues and relate them to their historical, geographic, political, economic, 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.
Click for Course Student Learning Outcomes

HESD 408 HSD NON-CREDIT BASIC SKILLS U.S. HISTORY 0
(Formerly HIST402)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
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.

Click for Course Student Learning Outcomes

HSD 409  HSD NON-CREDIT BASIC SKILLS ALGEBRA I  0
(Formerly MATH401)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
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.

Click for Course Student Learning Outcomes

HSD 410  HSD NON-CREDIT BASIC SKILLS, ALGEBRA II  0
(Formerly MATH402)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
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.

Click for Course Student Learning Outcomes

HSD 411  HSD NON-CREDIT BASIC SKILLS, GEOMETRY  0
(Formerly MATH403)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
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.

Click for Course Student Learning Outcomes

HSD 412  HSD NON-CREDIT BASIC SKILLS POLITICAL SCIENCE  0
(Formerly POLS401)
4.00 hours per week: (3.00 lecture hours/1.00 lab hours)
Noncredit
Letter Grade or P/NP
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.

Click for Course Student Learning Outcomes

HSD 414  HSD NON-CREDIT BASIC SKILLS, SPANISH I  0
(Formerly SPAN401)
8.00 hours per week: (6.00 lecture hours/2.00 lab hours)
Noncredit
Letter Grade or P/NP
Focuses on reading, writing, speaking and understanding standard Spanish at a basic level. Acquiring basic vocabulary and grammar structures, including the simple present tense, noun-adjective agreement, subject-verb agreement, interrogatives, the immediate future tense, and the preterite tense. Exposure to and interaction with the cultures of the Spanish-speaking countries of the world. Using Spanish selectively both within and beyond the school setting. Participating in cultural projects, including comparing and contrasting other cultures to their own. This is an elective course towards a high school diploma.

Click for Course Student Learning Outcomes

HIST 203A  HISTORY OF WORLD CIVILIZATIONS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Surveys World Civilizations from antiquity to the 1500s, with a particular emphasis on the dynamic interaction and comparison of peoples and cultures. The focus is on the role played by social, political, economic, cultural, and religious forces in shaping the major world civilizations and the legacy of the subsequent civilizations for our world today. The course will analyze these forces within the context of such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 150
Click for Course Student Learning Outcomes

HIST 203B  HISTORY OF WORLD CIVILIZATIONS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Surveys World Civilizations from the 1500s to the present, with a particular emphasis on the increased integration of peoples and cultures as a result of the continuing process of
globalization. The focus is on the transformations of human society and human social relations caused by such ideas as scientific racism, nationalism, imperialism, and constitutional government. This course also covers trends including the increasing prevalence of migration, the changing nature of warfare, the harnessing of fossil fuels, the growing integration of global economies, and the scientific and technological advances that continue to revolutionize humanity's understanding and relationship to the natural world. This course will investigate the roles played by social, political, economic, cultural, and religious forces in shaping the major world civilizations, and the legacy of these subsequent civilizations for our world today. The course will analyze these forces within the context of such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 160
Click for Course Student Learning Outcomes

HIST 207A HISTORY OF THE UNITED STATES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Surveying United States history from its European, African, and Native American origins to 1865. It also analyzes many of America's political, social, economic, and intellectual institutions, as they impact ethnic, racial, and class relations, and how these influence American contemporary life. These analyses also emphasize such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 130
Click for Course Student Learning Outcomes

HIST 207B HISTORY OF THE UNITED STATES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Surveying United States history from 1865 to the present. It also analyzes many of America's political, social, economic, and intellectual institutions, as they impact ethnic, racial, gender, and class relations, and how these influence contemporary life. This course also examines this nation's increasing involvement in world affairs. These analyses are set within the context of such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 140
Click for Course Student Learning Outcomes

HIST 204A HISTORY OF WESTERN CIVILIZATION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Surveys the history of Western Civilization from its origins in the Ancient Middle East through the Renaissance. It emphasizes the interplay of social, political, cultural, and intellectual forces that have served to define Western Civilization; how these forces impacted and shaped ethnic, racial, gender, and class relations; and how these influence modern contemporary life. These analyses also emphasize such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 170
Click for Course Student Learning Outcomes

HIST 204B HISTORY OF WESTERN CIVILIZATION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Surveys the history of Western Civilization from the Renaissance to contemporary times. It emphasizes the interplay of social, political, cultural, and intellectual forces that have served to define Western Civilization; how these forces impact and shape ethnic, racial, gender, and class relations, and how these influence modern contemporary life. These analyses also emphasize such historical concepts as cause and effect, multiple causation, and historical interpretation.

Transfer: CSU; UC
C-ID HIST 180
Click for Course Student Learning Outcomes

HIST 210 HISTORY OF CALIFORNIA 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

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
Click for Course Student Learning Outcomes

HIST 212 HISTORY OF MEXICAN AMERICANS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Examines the historical and contemporary experience of people of Mexican descent from pre-Contact indigenous Mexican societies to the present, focusing on the legacies of the U.S.-Mexican War, history of Mexican immigration, U.S.-Mexico relations, and the struggle for citizenship and civil rights.

Transfer: CSU; UC
Click for Course Student Learning Outcomes

HIST 223 HISTORY OF AFRICAN AMERICANS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156

Examines the historical, cultural, political, economic, and social development of people of African descent from 1619 to the present, focusing on the legacies of slavery, abolitionism, emancipation, segregation, urban black migration, economic exploitation, and the continuous forms of black resistance in the struggle for civil rights.

Transfer: CSU; UC
Click for Course Student Learning Outcomes
HIST 237  HISTORY OF AMERICAN WOMEN  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Surveys the social, political, economic, and cultural history of women in America from pre-European Native American societies through the late twentieth century, with particular emphasis on the marginalization of women and their struggles for justice, power, and equality in America.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

HIST 247  INDEPENDENT STUDIES: HISTORY  0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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 history under the direction of an instructor.
Transfer: CSU
Click for Course Student Learning Outcomes

HIST 260  HISTORY OF THE SAN SIMEON REGION  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: HIST 207B, HIST 210, ART 203, ART 204
Focuses on the North Coast of San Luis Obispo County, the San Simeon region, using the methods of environmental and public historical studies. The course will analyze and interpret the diverse communities present at different times in the San Simeon area, paying special attention to land use, social and cultural patterns, group relations and gender roles. Following a natural history and geographic study of the area, the class will move chronologically from the earliest human communities to the near present.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

JOURNALISM

JOUR 193  JOURNALISM SPECIAL TOPIC  0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

JOUR 201A  NEWS WRITING AND REPORTING  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
C-ID JOUR 110
Click for Course Student Learning Outcomes

JOUR 201B  INTRODUCTION TO MASS COMMUNICATION  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Presents a survey of 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
C-ID JOUR 100
Click for Course Student Learning Outcomes

JOUR 201C  JOURNALISM FIELD STUDIES  0.50 to 1.00
0.50 - 1.00 hours per week: (0.00 to 1.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: JOUR 202A
Presents on-site studies of local, state, or national government entities, and/or publications and broadcasting stations. Students must pay their proportional part of the expenses resulting from transportation, meals, and lodging.
Transfer: CSU
Click for Course Student Learning Outcomes

JOUR 202A  INTRO TO NEWS PRODUCTION  4.00
8.00 hours per week: (2.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Introduces hands-on news production to produce The Cuestonian student newspaper and Cuestonian.com. Presents all aspects of the newspaper business including reporting, writing, editing, photography, design/layout, online publishing, multimedia journalism and emerging technologies. Includes weekly news assignments for publication across multiple platforms for publications produced with student leadership.
Transfer: CSU
C-ID JOUR 130
Click for Course Student Learning Outcomes

JOUR 202B  NEWS PRODUCTION  4.00
8.00 hours per week: (2.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: JOUR 202A
Involves students in editorial positions using state-of-the-art technology to produce The Cuestonian student newspaper and Cuestonian.com. Continues the study of all aspects of the newspaper business including reporting, writing, editing, photography, design/layout, online publishing, multimedia journalism and emerging technologies. Includes weekly news assignments for publication across multiple platforms for publications produced with student leadership.
Transfer: CSU
C-ID JOUR 131
Click for Course Student Learning Outcomes
JOUR 202C  NEWS PRODUCTION  4.00  
8.00 hours per week: (2.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: JOUR 202A and JOUR 202B
Involves students in major hands-on editorial positions and leadership in using state-of-the-art technology to produce The Cuestonian and Cuestonian.com. Continues the study of all aspects of the print and online news business at an advanced skill level and leadership involvement, which goes beyond JOUR 202A and JOUR 202B.  
Transfer: CSU
Click for Course Student Learning Outcomes

JOUR 203  FEATURE WRITING  3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

JOUR 205  MULTIMEDIA JOURNALISM  3.00  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: JOUR 201A and ENGL 156
Introduces the fundamentals of gathering, producing and presenting content for digital media. Explores ethical issues and stresses multimedia storytelling.  
Transfer: CSU
C-ID JOUR 120
Click for Course Student Learning Outcomes

JOUR 247  INDEPENDENT STUDIES: JOURNALISM  0.50 to 2.00  
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 practical experience by an individual student in a selected topic of journalism under the direction of an instructor.  
Transfer: CSU
Click for Course Student Learning Outcomes

KINA 201  WEIGHT TRAINING  0.50 to 1.00  
(Formerly PEAC270)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: JOUR 202A and JOUR 202B
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.  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 202  STRENGTH TRAINING FOR SPORT PERFORMANCE  0.50 to 1.00  
(Formerly PEAC271)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: KINA 201 or by consent of the 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.  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 203  ENDURANCE CIRCUIT WEIGHT TRAINING  0.50 to 1.00  
(Formerly PEAC269)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: The student must have completed preparatory course work in the field in which the study is to be undertaken.
Recognize that circuit weight training is an approach to physical fitness that involves quick bursts of exercise with minimal rest intervals between each burst. The “circuit” in the term is a reference to students will move around a circuit to access different types of weight training equipment during their exercise sessions.  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 204  POWER LIFTING  1.00  
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Designed to offer students a chance to power train. Students will develop an understanding of power lifting and how to implement it into a fitness plan. Power lifting is a system of heavy resistance and low repetition exercise that builds power in large muscle groups. Recommended for students with experience in weight training.  
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes
KINA 205 RESISTANCE TRAINING 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a guided strength training course designed to sculpt and strengthen the body for general and/or sport specific fitness. The course utilizes muscular strength and endurance training using a variety of modalities and equipment including but not limited to: free weights, bars, exercise tubes, medicine balls, body weight, stability balls and cables.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 206 TRX FULL BODY FITNESS 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Provides the concepts of health and skill related fitness including muscular endurance, muscular strength, flexibility, agility, power and core development using the TRX Suspension Training System techniques in a group fitness setting.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 207 ADVANCED TRACK & FIELD APPLICATIONS 2.00
(Formerly PEAC209)
6.00 hours per week: (0.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: KINA 208
Designed for students of advanced skills and abilities in track and field. Fundamentals of jumping, throwing, sprinting, hurdling and distance running will be stressed. Recommended for those interested in club sport and/or intercollegiate competition.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 208 TRACK AND FIELD TECHNIQUES 1.00
(Formerly PEAC275)
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Provides skills and techniques in multiple events for the sport of track & field.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 210 ADVANCED WEIGHT TRAINING 0.50 to 1.00
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Develops advanced weight lifting techniques and conditioning for sports activity and competition. Power lifting on free weights, resistance machines, and use of additional equipment. Focus is on maximizing muscle development through advanced training principles.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 212 CARDIO STEP TRAINING 1.00
(Formerly PEAC264)
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a total fitness program, including cardiovascular, muscular strength and flexibility fitness through a step training program.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 213 ZUMBA 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a mix of Latin dance steps like the merengue, salsa, cambia, mambo, samba, as well as other dances from around the world. The dances are set to high energy Latin music that makes this total body workout an inspiring and energetic method for increasing cardiovascular fitness, muscular strength, and flexibility.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 217 KICKBOXING FOR FITNESS 0.50 to 1.00
(Formerly PEAC210)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents the concepts of cardiorespiratory fitness, muscular endurance, muscular strength, and flexibility of exercise through high-intensity kickboxing techniques.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 222 PILATES 0.50 to 1.00
(Formerly PEAC206)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes
KINA 223  PILATES BARRE  1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a fitness method that teaches the fundamentals of the Pilates technique using the ballet barre as a tool. Pilates Barre utilizes the barre warm-up in a complimentary fashion with various principles, exercises, poses, stretches, and breathing techniques from Pilates and Yoga. Correct anatomical alignment is taught by utilizing the barre to warm-up while also performing strengthening, lengthening, and aerobic conditioning exercises. Pilates mat exercises are used to develop and challenge core strength. Various Yoga poses are incorporated into the workout for their muscular strengthening and stretching benefits.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 224  CORE PILATES  1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Incorporates the Pilates method into a strengthening and general core fitness and sport training course. Students will improve overall movement fluidity, breathing techniques, kinesthetic awareness, propropioception, core strength, and endurance while integrating the mind/body connection during movement based on the original techniques developed by Joseph H. Pilates. Students will learn principles of proper alignment, strength, endurance, flexibility, balance, and coordination using intermediate level mat exercises.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 227  INDOOR CYCLING FOR FITNESS  0.50 to 1.00
(Formerly PEAC280)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 231  CARDIO BOOTCAMP  0.50 to 1.00
(Formerly PEAC288)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 232  CARDIO ENDURANCE CONDITIONING  0.50 to 1.00
(Formerly PEAC266)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents a programmed method of cardiovascular/respiratory fitness through walking, running, swimming and/or cycling.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 233  SPORT SPECIFIC CONDITIONING  0.50 to 1.00
(Formerly PEAC267)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Presents general and sport-specific conditioning methods for intercollegiate athletes. Course is designed to meet conditioning needs using a variety of modalities including running, swimming, cycling and resistance training.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 234  CROSS FITNESS TRAINING  0.50 to 1.00
(Formerly PEAC265)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents cross fitness training methods for general fitness and sport training. Training modalities include running, circuit training, interval training, swimming, cycling and resistance training.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 235  BACKPACKING  1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Must be able to complete a 2 mile time trial in under 20 minutes.
Identify principles, techniques, and methods for safe and responsible skills in backpack camping. Students will gain information on what to include in their pack, how to prepare a pack efficiently, trail etiquette, and risks associated with outdoor terrain and weather. Day backpacking at a local county park, an overnight backpacking trip, and an extended weekend experience at a California National or State Park.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 236  TENNIS FOR LIFETIME FITNESS  0.50 to 1.00
(Formerly PEAC285)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
Introduces the basic skills and strokes used in controlling play, rules, and etiquette of the game. Reviews basic ground strokes, improves serving technique, introduces advanced skills and starts on basic strategy patterns. Pres-
cardiovascular fitness will be discussed.

**KINA 283 YOGA FOR PRACTICALITY** 0.50 to 1.00  
(Formerly PEAC283)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Presents key concepts of a successful trail running program including health related fitness, appropriate gear, and trail running techniques. The course prepares student for trail running for recreation and/or competition.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)

**KINA 251 DISTANCE RUNNING FOR INDIVIDUAL SUCCESS** 0.50 to 1.00  
(Formerly PEAC274)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP

Presents the key ingredients of successful distance running and their application to life long fitness. The class will prepare students for competitive distance running; 10k - 1/2 marathon distances.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)

**KINA 252 INTRODUCTION TO TRAIL RUNNING** 0.50 to 1.00  
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable  
Letter Grade or P/NP

Presents key concepts of a successful trail running program including health related fitness, appropriate gear, and trail running techniques. The course prepares student for trail running for recreation and/or competition.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)

**KINA 256 VOLLEYBALL TECHNIQUES** 0.50 to 1.00  
(Formerly PEAC297)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable  
Letter Grade or P/NP

Provides progressive instruction for skill development in both offensive and defensive systems of volleyball. Skills practice as well as rules and strategy of game play will be presented.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)

**KINA 265 INDEPENDENT STUDIES: KINESIOLOGY ACTIVITIES** 0.50 to 2.00  
(Formerly PEAC247)
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable  
Letter Grade or P/NP

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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)

Click for Course Student Learning Outcomes
KINA 267 FREESTYLE WRESTLING 0.50 to 1.00
(Formerly PEAC252)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Presents the basic skill techniques involved in International Wrestling: Freestyle and Greco-Roman. Designed for both the beginning and advanced wrestler.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 271 BASKETBALL TECHNIQUES 0.50 to 1.00
(Formerly PEAC292)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Prerequisites: Students must possess advanced collegiate 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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 277 FUNDAMENTALS OF BASKETBALL 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
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KINA 278 BASKETBALL FOR LIFETIME FITNESS 0.50 to 1.00
(Formerly PEAC293)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Advisories: Prior participation in a high school, collegiate or club level basketball program or consent of instructor.

Presents major concepts of basketball offense and defense, taught and played in game-like situations.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 281 SOFTBALL FUNDAMENTALS 0.50 to 1.00
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Presents theory, practice, and strategy of fastpitch softball.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 286 ADVANCED BASEBALL APPLICATIONS 2.00
(Formerly PEAC296)
6.00 hours per week: (0.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: KINA 287

Designed for students of advanced ability in baseball. Fundamentals of offense, defense and advanced strategies will be stressed. Recommended for those interested in intercollegiate competition.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 287 BASEBALL TECHNIQUES 1.00
(Formerly PEAC291)
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Advisories: KINA 287

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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 292 SWIMMING & DIVING APPLICATIONS 2.00
(Formerly PEAC299)
6.00 hours per week: (0.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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 incorporated. Recommended for those interested in intercollegiate competition.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINA 293 SWIMMING TECHNIQUES 0.50 to 1.00
(Formerly PEAC240)
1.50 - 3.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Float in water.

Emphasizes developing the fundamental techniques of swimming. All strokes will be taught along with elementary diving and basic survival skills. Endurance training and cardiovascular fitness will be discussed.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes
KINA 294 LAP SWIMMING 0.50 to 1.00
1.50 - 3.00 hours per week; (0.00 - 0.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: Swim 25 yards.
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.
Transfer: CSU; UC (UC credit limit of 4 semester credits total in PEAD, KINA and ATHL courses)
Click for Course Student Learning Outcomes

KINE 193 KINESIOLOGY THEORY SPECIAL TOPICS 0.50 to 4.00
0.00 - 0.00 hours per week; (0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

KINE 201 INTRODUCTION TO KINESIOLOGY 3.00
(Formerly PETH201)
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents the study of kinesiology including the history, subdisciplines, future trends, and career opportunities in the areas of teaching, coaching, allied health, and fitness professions.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
C-ID KIN 100
Click for Course Student Learning Outcomes

KINE 202 PRINCIPLES OF COACHING 3.00
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Presents current theory and practice in coaching education, including sport pedagogy, physiology, psychology, administration, and risk management. Issues of performance and competition specific to child, youth, and collegiate coaching are emphasized. The course is designed to prepare students to take the American Sport Education Program Coaching Principles Certification Exam and/or the California Interscholastic Federation Exam.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
Click for Course Student Learning Outcomes

KINE 213 INTRODUCTION TO PREVENTION AND CARE OF ATHLETIC INJURIES 3.00
(Formerly PETH213)
3.00 hours per week; (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Provides the student with basic exposure to the care and prevention of activity injuries. Includes general principles in sports medicine and athletic training.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
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KINE 214 FOUNDATIONS FOR FITNESS 3.00
(Formerly PETH214)
4.00 hours per week; (3.00 lecture hours/1.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents the physiological principles and other factors that provide the foundations for the development and maintenance of physical fitness and exercise. Presents opportunities for lab application of basic fitness and exercise principles.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
Click for Course Student Learning Outcomes

KINE 215 THEORY OF BASEBALL 2.00
(Formerly PETH215)
2.00 hours per week; (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Presents all the fundamental phases of defensive and offensive baseball. Lectures, chalkboard discussion, demonstrations, and video studies are included in the course.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
Click for Course Student Learning Outcomes

KINE 216 THEORY OF TRACK AND FIELD AND CROSS COUNTRY 2.00
2.00 hours per week; (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156
Introduces the basic description and knowledge of all track and field and cross country events. Provides advanced understanding of rules, regulations, and organization of track and field and cross country including community events.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
Click for Course Student Learning Outcomes

KINE 218 GROUP EXERCISE LEADERSHIP 3.00
(Formerly PETH218)
5.00 hours per week; (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 156 and KINE 201
Presents the fundamentals of exercise programming and group class leadership. Students will demonstrate skills in assessment and monitoring of group fitness participants, learning methods of teaching group exercise classes, including general and special populations, as well as how to apply principles of adherence and motivation to group exercisers. Class will prepare students to take the ACSM Certified Group Fitness Instructor exam.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
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KINE 220 WELLNESS: PERSONALIZED FITNESS AND NUTRITION FOR LIFE 2.00
(Formerly PETH220)
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU; UC (UC credit limit of 8 semester credits total in KINE courses)
Click for Course Student Learning Outcomes

KINE 224 CERTIFIED PERSONAL TRAINER 3.00
(Formerly PETH224)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: BIO 212
Presents the principles of fitness training and its application to personal training for the health and fitness professional. Upon completion of this course, the student will be prepared to take the American College of Sports Medicine Certified Personal Trainer certification exam.
Transfer: CSU
Click for Course Student Learning Outcomes

LEADERSHIP

LDER 193 LEADERSHIP SPECIAL TOPIC 0 to 0
0.00 - 0.00 hours per week: (0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

LDER 247 INDEPENDENT STUDIES: LEADERSHIP 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 leadership under the direction of an instructor.
Transfer: CSU
Click for Course Student Learning Outcomes

LDER 253 PEER COUNSELING 2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: Completion of or concurrent enrollment in ENGL 156.
Peer Counseling is a practicum experience that helps to address positive mental health concepts. It prepares students to assist other students with issues and problems facing many college students, including self-acceptance, problem solving/decision making, and interpersonal relationships.
Transfer: CSU
Click for Course Student Learning Outcomes

LDER 256 CAMPUS PEER EDUCATOR 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: LDER 253 completion or concurrent enrollment.
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 LDER 253 and applies it in a way to promote healthy behaviors and wellness among all members of the Cuesta College community.
Transfer: CSU
Click for Course Student Learning Outcomes

LDER 261A PHILOSOPHY OF LEADERSHIP 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 156 completion or concurrent enrollment.
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
Click for Course Student Learning Outcomes

LDER 261B LEADERSHIP: SUCCESS STRATEGIES SEMINAR 1.50
1.50 hours per week: (1.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: ENGL 156 completion or concurrent enrollment.
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
Click for Course Student Learning Outcomes

LDER 262 STUDENT LEADERSHIP 1.00 to 3.00
3.00 - 9.00 hours per week: (0.00 - 0.00 lecture hours/3.00 - 9.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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.
Transfer: CSU
Click for Course Student Learning Outcomes
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**LDER 263 EXPLORING LEADERSHIP-MAKING A DIFFERENCE** 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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
Click for Course Student Learning Outcomes

**LEGAL**

**LGL 193 LEGAL SPECIAL TOPIC** 0.50 to 4.00
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examine a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

**LGL 217 INTRODUCTION TO LAW** 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

**LGL 247 INDEPENDENT STUDIES: LEGAL** 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 legal topic under the direction of an instructor.
Transfer: CSU
Click for Course Student Learning Outcomes

**LIBRARY AND INFORMATION TECHNOLOGY**

**LIBT 193 LIBRARY INFORMATION SPECIAL TOPIC** 0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

**LIBT 201 INTRODUCTION TO LIBRARY SERVICES** 3.00
(Formerly LIBT101)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Completion of or concurrent enrollment in DIST 101
Advisories: ENGL 156 with a minimum grade of C or better
Surveys the history, organization, services, personnel and functions of libraries and information centers. Provides beginning library/information technology students with an introduction and overview to the field and identifies job opportunities.
Transfer: CSU
Click for Course Student Learning Outcomes

**LIBT 204 ORGANIZING INFORMATION** 3.00
(Formerly LIBT104)
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: LIBT 201
Advisories: ENGL 156
A practical introduction to the tasks involved with cataloging book and nonbook library materials. Includes descriptive cataloging using AACR2, subject cataloging, and classification. Covers MARC formats as well as their use in the OCLC bibliographic utility and local automated library systems.
Transfer: CSU
Click for Course Student Learning Outcomes

**LIBT 205 LIBRARY/INFORMATION CENTER COLLECTIONS** 3.00
(Formerly LIBT105)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: LIBT 201
Provides an overview of how to select, purchase, and organize print, electronic, and other materials to stock library/information center collections.
Transfer: CSU
Click for Course Student Learning Outcomes

**LIBT 207 WEB PAGE DEVELOPMENT** 3.00
(Formerly LIBT107)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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 aesthet-
ics. 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.

**LIBT 208 LIBRARY TEAMWORK AND SUPERVISORY SKILLS** 1.00
(Formerly LIBT108)
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Completion of or concurrent enrollment in LIBT 201
Introduces teamwork and 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, communication methods, and statistical reports.

**LIBT 209 LIBRARY PUBLIC SERVICES** 3.00
(Formerly LIBT109)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: LIBT 201
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.

**LIBT 210 SCHOOL LIBRARY/MEDIA CENTER SERVICES** 3.00
(Formerly LIBT110)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: LIBT 201
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.

**LIBT 212 RESEARCH SKILLS FOR INFORMATION AGE** 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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.

**LIBT 213 ADVANCED INTERNET SEARCHING** 1.00
(Formerly LIBT113)
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Focuses on advanced search techniques, strategies, and concepts to locate a variety of information resources for personal and academic needs. Students will learn how to formulate effective search queries, select appropriate information resources, and retrieve and evaluate information from these resources.

**LIBT 214 INFORMATION TECHNOLOGY INTERNSHIP** 2.00
(Formerly LIBT114)
5.00 hours per week: (0.50 lecture hours/4.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Completion of with a grade of C or better or concurrent enrollment in 10 Library/Information Technology units from LIBT 201, LIBT 204, LIBT 205, LIBT 208, LIBT 209, LIBT 215, or LIBT 217 or ten Web Development Technology units from ART 220, BUS 243, BUS 248, LIBT 202, LIBT 206, LIBT 211, LIBT 216, or LIBT 217 and Consent of the instructor.
Provides structured on-the-job experience in an appropriate information technology environment. (e.g., information center, library, business, etc.)

**LIBT 215 TECHNOLOGY IN THE WORKPLACE** 3.00
(Formerly LIBT115)
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
This course offers a practical look at proper approaches and techniques used to understand, utilize and troubleshoot workplace technology—particularly computer and multimedia technology.

**LIBT 217 ETHICS IN THE INFORMATION AGE** 1.00
(Formerly LIBT117)
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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.

**LIBT 218 CONNECTING ADOLESCENTS WITH LITERATURE AND LIBRARIES** 3.00
(Formerly LIBT118)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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.

Transfer: CSU
Click for Course Student Learning Outcomes

**LIST 220 FUNDAMENTALS OF CASCADING STYLE SHEETS**

(Formerly LIST 212)
1.00

1.00 hours per week: (1.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: LIST 207 or concurrent enrollment

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.

Transfer: CSU
Click for Course Student Learning Outcomes

**LIST 247 INDEPENDENT STUDIES: LIBRARY/INFORMATION TECHNOLOGY**

0.50 to 2.00

1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)

Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: LIST 201 and other preparatory coursework 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.

Transfer: CSU
Click for Course Student Learning Outcomes

**LICENSED VOCATIONAL NURSING**

**LVN 101 THEORY I: FUNDAMENTALS, MOTHER/BABY AND ACUTE ADULT**

7.00

7.00 hours per week: (7.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable
Letter Grade Only
Prerequisites: Program admission
Corequisites: LVN 101A and LVN 101AL and LVN 101B

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 and roles employed in health maintenance, acute illness, surgical care, rehabilitation nursing for adults and elderly, and perinatal nursing. Adapting standard nursing care to meet the needs of the elderly is a focus for the LVN role.

Click for Course Student Learning Outcomes

**LVN 101A SKILLS THEORY I: ADULT, MOTHER/BABY, AND MEDICATION ADMINISTRATION**

7.00

7.00 hours per week: (7.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable
Letter Grade Only
Corequisites: LVN 101 and LVN 101AL and LVN 101B

Apply theory to demonstration of basic nursing skills based on scientific principles: Use legal and LVN Scope to learn safe patient care and nursing skills. Apply relevant steps in the nursing process: assessment, planning, implementing, evaluation and documentation. Application of pharmacology and methods that foster safe medication administration are a major focus. Methods for basic nursing skills and care of the perinatal patient and newborn are introduced.

Click for Course Student Learning Outcomes

**LVN 101AL SKILLS LAB I: BASIC CARE, ADULT, MOTHER/BABY, MEDICATION ADMINISTRATION**

2.50

7.50 hours per week: (0.00 lecture hours/7.50 lab hours)

Credit - Degree Applicable
P/NP Only
Corequisites: 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, evaluations and documentation. Emphasis is placed on meeting critical elements of hands-on skills, practicing a consistent method of medication administration, and practicing documentation and patient interactions. Students demonstrate competent skill performance in a simulated clinical setting. 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, evaluations and documentation. Emphasis is placed on meeting critical elements of hands-on skills, practicing a consistent method of medication administration, and practicing documentation and patient interactions. Students demonstrate competent skill performance in a simulated clinical setting.

Click for Course Student Learning Outcomes

**LVN 102 THEORY II: PERIOPERATIVE, PEDIATRICS, CHRONIC DISEASE**

7.00

7.00 hours per week: (7.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable
Letter Grade Only
Prerequisites: LVN 101B
Corequisites: LVN 102A and LVN 102AL and LVN 102B

Prepares the licensed vocational student nurse to care for patients and integrate concepts of perioperative nursing, pediatric nursing, chronic disease and dependent care across the lifespan. Concepts fundamental to the leadership, supervision and delegation roles are presented.

Click for Course Student Learning Outcomes
### LVN 102A  
**Skills Theory II: Perioperative, Pediatrics, Chronic Disease**

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<th>Credit - Degree Applicable</th>
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- **7.00 hours per week:** (7.00 lecture hours/0.00 lab hours)
- **Prerequisites:** LVN 101B
- **Corequisites:** LVN 102 and LVN 102AL and LVN 102B

#### Description:
Applies nursing concepts and skills through theory and demonstration to more complex clients based on scientific principles. Concepts from theory include chronic disease, perioperative problems, and pediatric assessment and skills. Planning and implementing patient care is relevant to steps in the nursing process: assessment, planning, implementing, evaluation and documentation.

#### Click for Course Student Learning Outcomes

### LVN 102B  
**Clinical II: Adult Acute, Mother/Baby, Pediatric Care**

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<th>Credit - Degree Applicable</th>
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- **15.00 hours per week:** (0.00 lecture hours/15.00 lab hours)
- **Prerequisites:** LVN 101B
- **Corequisites:** LVN 102 and LVN 102A and LVN 102AL

#### Description:
Applies concepts and skills learned with integration to the care of the acute adult, the obstetric, neonate, and pediatric client. An emphasis on normal growth and development process in relationship to disease is emphasized. The family as a whole system of interactions for patient teaching and the administration of culturally sensitive care is applied to diverse clinical setting. Application of the critical elements for clinical skills performance.

#### Click for Course Student Learning Outcomes

### LVN 103  
**Theory III: Community and Mental Health Nursing**

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<th>Credit - Degree Applicable</th>
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- **2.00 hours per week:** (2.00 lecture hours/0.00 lab hours)
- **Prerequisites:** LVN 102B
- **Corequisites:** LVN 103A and LVN 103B

#### Description:
Prepares student in community health and mental health nursing. Also prepares student for NCLEX exam success.

#### Click for Course Student Learning Outcomes

### LVN 103A  
**Skills Theory III: Community and Mental Health Nursing**

<table>
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<th>Credit - Degree Applicable</th>
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- **2.00 hours per week:** (2.00 lecture hours/0.00 lab hours)
- **Prerequisites:** LVN 102B
- **Corequisites:** LVN 103 and LVN 103B

#### Description:
Applies nursing concepts through theory and demonstration of advanced vocational nursing skills based on scientific principles. Planning & implementing patient care for patients in the community and psychiatric setting. Emphasis is placed on the unique needs of the mental health and community based patient with multiple health care needs.

#### NCLEX preparedness is also presented...

#### Click for Course Student Learning Outcomes

### LVN 103B  
**Clinical III: Mental Health, Team Leading, Preceptorship**

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<th>Credit - Degree Applicable</th>
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- **3.00 hours per week:** (0.00 lecture hours/3.00 lab hours)
- **Prerequisites:** LVN 102B
- **Corequisites:** LVN 103 and LVN 103A

#### Description:
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 skilled nursing settings.

#### Students are challenged with more complicated patients in a variety of settings, including caring for the patient with mental health priorities. This course also includes a 108 hour preceptorship component at the end of the semester.

#### Click for Course Student Learning Outcomes

### LVN 104  
**Basic Intravenous Therapy, Blood Administration, and Phlebotomy**

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<th>Credit - Degree Applicable</th>
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- **1.50 hours per week:** (1.50 lecture hours/0.00 lab hours)
- **Prerequisites:** LVN 103B or May have current and active LVN license from the Board of Vocational Nursing and Psychiatric Technicians of the State of California.
- **Corequisites:** LVN 104L

#### Description:
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.

#### Click for Course Student Learning Outcomes

### LVN 104L  
**Basic Intravenous Therapy, Blood Administration and Phlebotomy Lab**

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<th>Credit - Degree Applicable</th>
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- **0.50 hours per week:** (0.50 lecture hours/0.00 lab hours)
- **Prerequisites:** LVN 103B or May have current and active LVN license from the State of California Board of Vocational Nursing and Psychiatric Technicians of the State of California.
- **Corequisites:** LVN 104

#### Description:
Prepares students to perform venipuncture and initiate and monitor administration of IV fluid, blood and blood products, and withdraw venous blood for diagnostic purposes.

#### (Formerly part of LVN104 as one class)

#### Click for Course Student Learning Outcomes
**MATH 123  ELEMENTARY ALGEBRA  5.00**  
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Prerequisites: MATH 007  
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.  
Click for Course Student Learning Outcomes

**MATH 122  TWO-SEMESTER BEGINNING ALGEBRA: PART 2  5.00**  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: MATH 021 with a minimum grade of C or better  
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.  
Click for Course Student Learning Outcomes

**MATH 123  ELEMENTARY ALGEBRA  5.00**  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: MATH 007  
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.  
Click for Course Student Learning Outcomes

**MATH 126A  TWO-SEMESTER INTERMEDIATE ALGEBRA- PART 1  5.00**  
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: MATH 122 or MATH 123  
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.  
Click for Course Student Learning Outcomes
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MATH 126B TWO-SEMESTER INTERMEDIATE ALGEBRA - PART 2 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 126A

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.
Click for Course Student Learning Outcomes

MATH 127 INTERMEDIATE ALGEBRA 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 123

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.
Click for Course Student Learning Outcomes

MATH 128 APPLIED BEGINNING AND INTERMEDIATE ALGEBRA 6.00
6.00 hours per week: (6.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 007 with a minimum grade of C or better

Accelerated preparation for Introduction to Applied Statistics(Math 236) or College Mathematics for the Humanities (Math 230). Topics include calculations and error analysis on real number data, development of equations, formulas, and functions as mathematical models, exploratory data analysis, introduction to probability, and the development of statistical literacy. This course is designed for students who want an alternative to the Math 123/Math 127 sequence for meeting the math requirement of the Associates degree, or who intend to take Math 236, Math 232, or Math 230 to meet transfer requirements. Not intended for science, technology, engineering, math, or business majors
Click for Course Student Learning Outcomes.

MATH 193 MATH SPECIAL TOPIC 0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP

Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

MATH 229 TRIGONOMETRY 4.00
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 127 or MATH 126B and geometry or equivalent courses with a grade of C or better
Advisories: MATH 242

Presents trigonometry from a function approach using both right triangle and circular relationships. The relationships between the angles and sides of triangles and relationships between central angles and the coordinates of points on a circle are developed. The course is designed to prepare the student for further study in the mathematics required in the sciences and technical areas.
Transfer: CSU
Click for Course Student Learning Outcomes

MATH 230 COLLEGE MATHEMATICS FOR THE HUMANITIES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 127, MATH 126B, or MATH 128 or equivalent with a grade of C or better

Presents applications of intermediate algebra and critical thinking to solving contemporary problems in mathematics. Topics include mathematical reasoning with four additional topics selected from number systems, number theory, finance, computer applications, probability, statistics and mathematical modeling.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MATH 231 TRIGONOMETRY WITH GEOMETRIC FOUNDATIONS 5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 127

Presents the entire content of MATH 229 Trigonometry with topics from MATH 225 Geometry. Topics include trigonometric functions, equations, graphs, identities, and solution of triangles. Also includes geometric congruence, properties of polygons, parallel lines, similarity, areas, and volumes.
Transfer: CSU
Click for Course Student Learning Outcomes

MATH 232 COLLEGE ALGEBRA 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Suggested - MATH 127 or MATH 126B or MATH 128 or equivalent with a grade of C or better

Presents a study of college algebra and analytic geometry with an emphasis on mathematical modeling. Covers such topics as algebraic equations and inequalities, functions and graphs, zeros of functions, rational functions, exponential and logarithmic functions, conic sections, and systems of equations.
Transfer: CSU; UC
C-ID MATH 150
Click for Course Student Learning Outcomes

MATH 236 INTRODUCTION TO APPLIED STATISTICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MATH 127 or MATH 126B or MATH 128 or equivalent with a minimum grade of C or better

Presents an introduction to the study of basic descriptive and inferential statistical methods, with an emphasis on applications, to prepare students for work in the disciplines of
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 242</td>
<td>PRECALCULUS ALGEBRA</td>
<td>5.00</td>
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<tr>
<td>MATH 247</td>
<td>INTRODUCTION TO STATISTICS</td>
<td>4.00</td>
</tr>
<tr>
<td>MATH 255</td>
<td>CALCULUS FOR BUSINESS AND MANAGEMENT</td>
<td>3.00</td>
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<tr>
<td>MATH 265A</td>
<td>CALCULUS I</td>
<td>5.00</td>
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<tr>
<td>MATH 265B</td>
<td>CALCULUS II</td>
<td>5.00</td>
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<tr>
<td>MATH 267</td>
<td>ORDINARY DIFFERENTIAL EQUATIONS AND LINEAR ALGEBRA</td>
<td>5.00</td>
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**MEDICAL ASSISTING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MAST 109</td>
<td>PHLEBOTOMY</td>
<td>2.50</td>
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</table>

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.

Click for Course Student Learning Outcomes

**MAST 109L PHLEBOTOMY EXTERNSHIP 1.00**
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: Student must be 18 years of age by the first class meeting.
Corequisites: MAST 109
Advisories: NRAD 222

Provide students the opportunity of an externship to apply knowledge and skills to an acute and/or ambulatory care laboratory setting.

Click for Course Student Learning Outcomes

**MAST 110 MEDICAL ASSISTING BASICS 2.00**
2.00 hours per week: (2.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only

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.

Click for Course Student Learning Outcomes

**MAST 111 MEDICAL ASSISTING FAST TRACK 11.00**
11.33 hours per week: (11.33 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MAST 110 or Concurrent enrollment in MAST 110; Student must be 18 years of age by the first class meeting
Corequisites: MAST 111L and Current Health Care Provider CPR and Standard First Aid
Advisories: NRAD 222

Prepares the student for entry level employment as a medical assistant and approved state or national certification exam. Must be 18 years or older to be certified.

Click for Course Student Learning Outcomes

**MAST 111L MEDICAL ASSISTING FAST TRACK LAB 1.00**
3.78 hours per week: (0.00 lecture hours/3.78 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: Student must be 18 yrs of age by the first class meeting.
Corequisites: MAST 111 and Current Health Care Provider CPR and Standard First Aid

Provides the opportunity to apply theory during skills lab practice and externship. 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 approved state or national certification exam. Must be 18 years or older to be certified.

Click for Course Student Learning Outcomes

**MAST 193 MEDICAL ASSISTING SPECIAL TOPIC 0.50 to 4.00**
1.50 -12.00 hours per week: (0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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

Click for Course Student Learning Outcomes

**METE 193 METEOROLOGY SPECIAL TOPIC 0.50 to 4.00**
1.50 -12.00 hours per week: (0.00 - 0.00 lecture hours/1.50 -12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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

Click for Course Student Learning Outcomes

**METE 212 INTRODUCTION TO METEOROLOGY 3.00**
(Formerly OCEN212)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 123
Advisories: 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; UC

Click for Course Student Learning Outcomes

**MUS 193 MUSIC SPECIAL TOPIC 0.50 to 4.00**
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP

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

Click for Course Student Learning Outcomes

**MUS 193E CHORAL ENSEMBLE TOUR 3.00**
9.00 hours per week: (0.00 lecture hours/9.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

Studies, rehearses, and performs jazz and vocal chamber literature of French and American cultures. Nine performances in France, and two local performances (pre-tour and post-tour) will be a large part of the class.

Click for Course Student Learning Outcomes

**MUS 201 FUNDAMENTALS OF MUSIC (MUSIC THEORY I) 3.00**
(Formerly MUS239)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: No previous musical experience necessary

Explores the basics of tonal music, its place in culture and writing music using excerpts of great pieces and the opportunity to make original compositions. Topics include, music in our culture, creating your own music, staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. Aimed at the non-major or the potential music ma-
MUS 204A  MUSIC THEORY II  3.00
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 201 or placement test
Corequisites: MUS 205A
Advisories: Keyboard skills or Piano class.
Incorporates the concepts from Music Fundamentals (Music Theory I) and continues the four semester program. Some students with prior music training may be able to test into this course. Through guided composition and analysis, the course will include: an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction to secondary/applied chords and modulation.
Transfer: CSU; UC
C-ID MUS 130
Click for Course Student Learning Outcomes

MUS 204B  MUSIC THEORY III  3.00
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 204A
Corequisites: MUS 205B
Incorporates the concepts from Music Theory II and continues the four semester program. Through writing and analysis, the course will include: introduction to chromatic harmony; secondary/applied chords; modulation; borrowed chords; introduction to Neapolitan and augmented-sixth chords. Required of all music majors.
Transfer: CSU; UC
C-ID MUS 140
Click for Course Student Learning Outcomes

MUS 204C  MUSIC THEORY IV  3.00
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 204B
Corequisites: MUS 205C
Incorporates the concepts from Music Theory III. Through writing and analysis, the course will include: post-Romantic techniques such as borrowed chords and modal mixture, chromatic mediants, Neapolitan and augmented-sixth chords, 9th, 11th and 13th chords, altered chords and dominants; and 20th century techniques such as: Impressionism, tone rows, set theory, pandiatonicism and polytonalism, meter and rhythm.
Transfer: CSU; UC
C-ID MUS 150
Click for Course Student Learning Outcomes

MUS 205A  MUSICIERSHIP II  1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Corequisites: MUS 204A
Applies and develops the rhythmic, melodic, and harmonic materials of Music Theory II through ear training, sight singing, analysis, and dictation.
Transfer: CSU; UC
C-ID MUS 135
Click for Course Student Learning Outcomes

MUS 205B  MUSICIERSHIP III  1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 205A
Corequisites: MUS 204B
Applies and develops the rhythmic, melodic, and harmonic materials of Music Theory III through ear training, sight singing, analysis, and dictation.
Transfer: CSU; UC
C-ID MUS 145
Click for Course Student Learning Outcomes

MUS 205C  MUSICIERSHIP IV  1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 205B
Corequisites: MUS 204C
Applies and develops the rhythmic, melodic, and harmonic materials of Music Theory IV through ear training, sight singing, analysis, and dictation.
Transfer: CSU; UC
C-ID MUS 155
Click for Course Student Learning Outcomes

MUS 212  APPLIED MUSIC (PRIVATE LESSONS)  2.00
7.00 hours per week: (0.00 lecture hours/7.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Final admittance to course based on audition.
Corequisites: One of the following: MUS 201 or MUS 204A and 205A or, MUS 204B and 205B or, MUS 204C and 205C AND one of the following: MUS 223 or, MUS 225 or, MUS 228 or, MUS 229 or, MUS 231 or, MUS 245
Consists of individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. 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 time(s).
Transfer: CSU; UC
Click for Course Student Learning Outcomes
### MUS 220  ELEMENTARY VOICE  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP

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
Click for Course Student Learning Outcomes

### MUS 222  INTERMEDIATE VOICE  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

### MUS 223  VOCAL JAZZ ENSEMBLE  2.00 to 3.00
6.00 - 9.00 hours per week: (0.00 lecture hours/6.00 - 9.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: MUS 228 or MUS 229

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 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

### MUS 224  VOCAL JAZZ WORKSHOP  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of instructor

Practice and study vocal jazz literature and techniques. Introduce vocal jazz improvisation and vocal jazz harmonies.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

### MUS 225  WIND ENSEMBLE  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of director.

Studies, rehearses, and performs of wind band literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Choice of ensemble is based on each student's identified major instrument. Limited to those students who have had experience with wind and percussion instruments.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

### MUS 227  CHAMBER MUSIC ENSEMBLE  1.00 to 3.00
3.00 - 9.00 hours per week: (0.00 - 0.00 lecture hours/3.00 - 9.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of instructor.

Studies, rehearses, and performs chamber music (small ensemble) literature, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

### MUS 228  MIXED CHORUS  1.00 to 3.00
3.00 - 9.00 hours per week: (0.00 lecture hours/3.00 - 9.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of instructor
Advisories: Knowledge of music notation

Presents the study and performance of appropriate choral literature selected from the wide variety of historic eras and musical styles from the 16th Century to the present. Public performance required.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

### MUS 229  CHAMBER SINGERS  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of instructor
Advisories: Previous choral experience

Studies, rehearses, and public performs madrigals and vocal chamber literature of all cultures and time periods. Frequent performances on and off campus will be a large part of the class with different music each semester.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

### MUS 231  JAZZ ENSEMBLE (BIG BAND)  1.50 to 3.00
2.50 - 5.00 hours per week: (1.00 - 2.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Ability to play an instrument and sight read. Audition or consent of instructor.

Provides for study, rehearsal, and public performance of big band literature. This course has an emphasis on the development of skills needed to perform this music in an ensemble. Attendance at scheduled performances is required.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per week:</th>
<th>Credit - Degree Applicable</th>
<th>Letter Grade or P/NP</th>
<th>Advisories:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 232</td>
<td>BEGINNING JAZZ IMPROVISATION</td>
<td>2.00</td>
<td>3.00 lecture hours/1.50 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>MUS 201</td>
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<td></td>
<td>Introduces students to the skills and principles of Jazz Improvisation. Includes a basic study of scales, chords and the transcription process. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 233</td>
<td>JAZZ IMPROVISATION</td>
<td>2.00</td>
<td>3.00 lecture hours/1.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade Only</td>
<td>Completion of MUS 201 or equivalent and concurrent enrollment in MUS 227</td>
</tr>
<tr>
<td></td>
<td>Provides an opportunity for the analysis and practice of jazz improvisation. Includes study of scales, chords and the transcription process. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 234</td>
<td>ARRANGING, SCORING, AND ORCHESTRATION</td>
<td>2.00</td>
<td>2.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>MUS 204B or equivalent and knowledge of jazz literature, styles and basic piano skills. MUS 223, MUS 225, MUS 227, MUS 228, MUS 231, or MUS 232A</td>
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<td>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. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 235</td>
<td>MUSIC APPRECIATION: CLASSICAL MUSIC</td>
<td>3.00</td>
<td>3.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>ENGL 156</td>
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<td>Surveys classical art music in western civilization. Topics studied include but are not limited to elements of music, basic musical forms, music periods, styles, and the role of music and musicians in the western world. Transfer: CSU, UC C-ID MUS 100 Click for Course Student Learning Outcomes</td>
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<td>MUS 236</td>
<td>MUSIC APPRECIATION: WORLD MUSIC</td>
<td>3.00</td>
<td>3.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>MUS 245 or Consent of Instructor</td>
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<td>Surveys the music that is unique to different parts of the world. There will be emphasis on the elements of each kind of music, the instruments, form, style and the role that each music plays in its society. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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<td>MUS 237</td>
<td>MUSIC APPRECIATION: AMERICAN POPULAR MUSIC</td>
<td>3.00</td>
<td>3.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>ENGL 156</td>
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<td>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 Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 238</td>
<td>MUSIC APPRECIATION: JAZZ HISTORY</td>
<td>3.00</td>
<td>3.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>ENGL 156</td>
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<tr>
<td></td>
<td>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. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 240</td>
<td>RECORDING ARTS I: FUNDAMENTALS OF AUDIO TECHNOLOGY</td>
<td>3.00</td>
<td>3.00 lecture hours/0.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>MUS 201</td>
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<td></td>
<td>Introduction to audio technology, including sound characteristics, signal flow, basic recording console functions, microphone types and techniques, signal processing , and mixing techniques. Transfer: CSU Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 241</td>
<td>RECORDING ARTS II: STUDIO WORKSHOP</td>
<td>3.00</td>
<td>4.00 lecture hours/1.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>MUS 240</td>
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<td>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 Dididesign Pro Tools HD System and D-Command Console. Transfer: CSU Click for Course Student Learning Outcomes</td>
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<tr>
<td>MUS 244A</td>
<td>BEGINNING SMALL GROUP JAZZ PEDAGOGY PRACTICUM</td>
<td>1.00</td>
<td>3.00 lecture hours/3.00 lab hours</td>
<td>Degree Applicable</td>
<td>Letter Grade Only</td>
<td>MUS 245 or Consent of Instructor</td>
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<td>Gives students a chance to develop rehearsal and teaching skills under the guidance of a master teacher in the small group jazz setting. Each student will be required to lead rehearsals and develop a notebook of rehearsal techniques. Transfer: CSU, UC Click for Course Student Learning Outcomes</td>
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MUS 244B  ADVANCED SMALL GROUP JAZZ PRACTICUM  1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: MUS 245
Gives students a chance to develop rehearsal and teaching skills under the guidance of a master teacher and experience leadership in the small group jazz setting. Each student will be required to lead rehearsals and develop a notebook of rehearsal techniques.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 245  JAZZ WORKSHOP  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition or consent of instructor.
Advisories: Ability to play an instrument
Performs music for small jazz ensembles, with an emphasis on the development of skills needed to publicly perform this music. The class is divided into different groups all playing different literature each semester. Stresses stylistic interpretation and ensemble playing.
Repeatable 3 time(s).
Transfer: CSU; UC
C-ID MUS 180
Click for Course Student Learning Outcomes

MUS 247  INDEPENDENT STUDIES: MUSIC  0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: Audition and/or consent of instructor.
Provides an opportunity for an in-depth study or a practicum experience by an individual student in a selected topic of music under the direction of an instructor.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 257  ELEMENTARY PIANO FOR MUSICIANS  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: The ability to read standard music notation.
Introduces the student to piano skills needed to pass a piano proficiency examination including practical keyboard facility, elementary sight-reading, harmony, transposition, ensemble playing, open score reading and performance of elementary and intermediate piano repertoire. It is assumed that the student can read standard music notation.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 259  INTERMEDIATE PIANO  1.00 to 2.00
2.00 - 4.00 hours per week: (0.50 - 1.00 lecture hours/1.50 - 3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MUS 258 or equivalent or audition and/or consent of the 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.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 266  CHORAL MUSIC 1: MUSIC OF THE MASTERS  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Audition for placement and 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
Click for Course Student Learning Outcomes

MUS 267  OPERA/MUSICAL THEATER WORKSHOP  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: MUS 220
Presents an opportunity for students to prepare dramatic musical material, including ensemble as well as solo pieces, and allow them to explore acting and movement principles in performance. The course will be a combination of discussions on dramatic and character analysis, individual coaching sessions, rehearsal and performances.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 270  ELEMENTARY GUITAR  2.00
3.00 hours per week: (1.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
Letter Grade Only
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.
Transfer: CSU; UC
Click for Course Student Learning Outcomes

MUS 258  ELEMENTARY PIANO  2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces the student to practical keyboard facility, reading music notation, elementary sight reading, harmony and performance of elementary piano repertoire.
Transfer: CSU; UC
Click for Course Student Learning Outcomes
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.

Click for Course Student Learning Outcomes

NRAD 103H THIRD SEMESTER NURSING READINESS 0.50
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Corequisites: NRAD 203A
A course designed for registered nursing students entering the third semester. Nursing concepts necessary for success in the third semester are reviewed.
Click for Course Student Learning Outcomes

NRAD 120 SUPPLEMENTARY NURSING SKILLS PRACTICE 0.50 to 3.00
1.50 - 9.00 hours per week: (1.50 - 9.00 lab hours)
Credit - Degree Applicable
P/NP Only
Prerequisites: 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 time(s).
Click for Course Student Learning Outcomes

NRAD 193 NURSING SPECIAL TOPIC 0.50 to 4.00
1.50 - 12.00 hours per week: (1.50 - 12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

NRAD 201 FOUNDATIONS OF NURSING/CARING 2.00
2.00 hours per week: (2.00 lecture hours/2.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: ENGL 210A
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
Click for Course Student Learning Outcomes

NRAD 201A NURSE CARING CONCEPTS 2.00
2.00 hours per week: (2.00 lecture hours/2.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: Admittance into the registered nursing program.
Corequisites: NRAD 204B
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. Intro-
Applies nurse caring concepts to the practice of nursing. Presents fundamental concepts and nursing care problems related to pharmacology, nutrition, fluid and electrolyte balance, diagnostic testing, and acute pain for the adult and geriatric client. Introduces math calculations for medication administration. Explores application of nursing process to nursing care problems. Cultural concepts pertinent to nursing care are presented.

**NRAD 201D DECISION MAKING DATA I**

*2.00 hours per week: (2.00 lecture hours/0.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 201A

Introduces caring theory as the essence of nursing. 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

**NRAD 202A NURSE CARING FAMILY CONCEPTS**

*3.00 hours per week: (3.00 lecture hours/0.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 201B and/or admission to the nursing program

Continues the study of caring concepts in greater depth and complexity. Teaches nursing care of the childbearing family, children and young through middle adulthood. Introduces family considerations in establishing short-term and long-term goals for health promotion. Continues focus on the individual assuming responsibility for health promotion and learning. Emphasizes planning, implementation and evaluation of nursing process in a multicultural society.

**Transfer:** CSU

**NRAD 202B NURSE CARING PRACTICUM II**

*8.00 hours per week: (8.00 lecture hours/12.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 201B and/or Admission to the nursing program and Current Health Care Provider CPR card is required

Applies nurse caring concepts to the clinical practice of nursing in a wide variety of health care settings. Presents related nurse caring skills. Provides opportunity to deliver relevant nursing care for maternity clients, infants, children, and young/middle-aged adults instructed clinical practice in a way that is culturally competent.

**Transfer:** CSU

**NRAD 202B DECISION MAKING DATA II**

*2.00 hours per week: (2.00 lecture hours/0.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 201B and/or Admission to nursing program

Builds on fundamental concepts related to pharmacology, nutrition, diagnostic testing across the life span. Emphasis is placed on the role of the nurse in client education. Cultural concepts pertinent to nursing care problems are presented.

**Transfer:** CSU

**NRAD 203 NURSING TRANSITIONS**

*1.00 hours per week: (1.00 lecture hours/0.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 201D

Introduces care for the elderly, clients with goal setting, energy, and caring problems. Includes cultural diversity and ethnic considerations, men and women's health, musculoskeletal, nutrition and elimination, degenerative nervous system, liver, skin, acute oxygenation, hematologic, and vascular problems. Emphasizes nursing intervention.

**Transfer:** CSU

**NRAD 203A NURSE CARING CONCEPTS III**

*2.00 hours per week: (2.00 lecture hours/0.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 203B

Applies nurse caring concepts to care of child, adult, and elderly clients with goal setting, energy, and caring problems. Includes cultural diversity and ethnic considerations, men and women's health, musculoskeletal, nutrition and elimination, degenerative nervous system, liver, skin, acute oxygenation, hematologic, and vascular problems. Emphasizes nursing intervention.

**Transfer:** CSU

**NRAD 203B NURSE CARING PRACTICUM III**

*5.00 hours per week: (5.00 lecture hours/3.00 lab hours)*

- **Credit - Degree Applicable**
- **Letter Grade Only**
- **Corequisites:** NRAD 203B

Applies nurse caring concepts to the clinical practice of nursing in a variety of health care settings. Presents advanced nursing skills. Provides opportunity to implement culturally relevant nursing care to clients with varied health problems in a various clinical settings.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per Week</th>
<th>Lecture/Lab</th>
<th>Credit/Grade</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NRAD 203D</td>
<td>Nurse Caring for Medical-Surgical Clients</td>
<td>2.00</td>
<td>2.00</td>
<td>(2.00/0.00)</td>
<td>Degree Applicable</td>
<td>NRAD 202D and/or admission to the nursing program</td>
<td>NRAD 203A</td>
<td>Applies nursing interventions of prevention, maintenance, restoration, and caring to a variety of health problems: neurologic, genito-urinary, renal, endocrine. Content is related to pathophysiology, life span, barriers to goal-setting, nursing process and teaching/learning. Emphasis is also placed on the impact that this situational crisis has on the client and families ability to cope. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 204</td>
<td>Nurse Leadership/Management</td>
<td>1.00</td>
<td>1.00</td>
<td>(1.00/0.00)</td>
<td>Degree Applicable</td>
<td>NRAD 203D and/or admission to the nursing program</td>
<td>NRAD 204A</td>
<td>Continues to develop leadership and management content at the Associate Degree level as required for beginning practice. Includes the management process, assertion skills, organizational skills, decision making, and change theory. Explores work-role relationships and collegiality, including conflict resolution, reality shock and strategies to deal with burnout. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 204A</td>
<td>Nurse Caring Concepts for Clients Psychiatrically at Risk</td>
<td>2.00</td>
<td>2.00</td>
<td>(2.00/0.00)</td>
<td>Degree Applicable</td>
<td>NRAD 203D and/or admission to the nursing program</td>
<td>NRAD 204B</td>
<td>Applies nurse caring concepts to planning nursing care for clients at risk from mental illness, dysfunction and crisis. Presents assessment techniques, nursing diagnoses and specific nursing interventions. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 204B</td>
<td>Nurse Caring for People at Risk Practicum</td>
<td>6.00</td>
<td>18.00</td>
<td>(0.00/18.00)</td>
<td>Degree Applicable</td>
<td>NRAD 203D and/or admission to the nursing program</td>
<td>NRAD 204D</td>
<td>Applies culturally sensitive nursing care for people at risk in health care settings, which are varied and more complex. Provides client care experiences in a less structured environment and with increasing independence. Includes preceptorship experience, which covers a designated period of time and a variety of clients across the life span in a variety of settings. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 204D</td>
<td>Nurse Caring for People at Risk Concepts</td>
<td>2.00</td>
<td>2.00</td>
<td>(2.00/0.00)</td>
<td>Degree Applicable</td>
<td>NRAD 203D and/or admission to the nursing program</td>
<td>NRAD 204</td>
<td>Applies nurse caring concepts to clients at risk. Emphasizes the nursing process as a framework for critical thinking for moderate to complex client situations. Introduces the critical care environment and establishment of priorities for clients in crisis. Emphasis is on clients with cardiovascular problems. Coping strategies, life style changes to promote health, and culturally relevant care are presented. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 219</td>
<td>Beginning Student Internship</td>
<td>1.00 - 3.00</td>
<td>3.00 - 9.00</td>
<td>(0.00/3.00-9.00)</td>
<td>Degree Applicable</td>
<td>NRAD 203D and/or admission to the nursing program</td>
<td>NRAD 202B</td>
<td>Provides the opportunity to practice selected nursing skills learned during the first year of Associate Degree Nursing course work under the supervision of a preceptor. Offers work experience in a participating agency. Transfer: CSU Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>NRAD 222</td>
<td>Medical Terminology</td>
<td>3.00</td>
<td>3.00</td>
<td>(3.00/0.00)</td>
<td>Degree Applicable</td>
<td>ENGL 156</td>
<td>Introduces medical terminology for body structure, body systems, and diagnostic work. Prefixes, suffixes and combined root forms are used to identify medical terms. Transfer: CSU Click for Course Student Learning Outcomes</td>
<td></td>
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<tr>
<td>NUTR 193</td>
<td>Nutrition Special Topic</td>
<td>0.50 to 4.00</td>
<td>0.00 - 4.00</td>
<td>(0.00/0.00)</td>
<td>Degree Applicable</td>
<td>ENGL 156</td>
<td>Examines a special topic in the field of study related to the discipline offering this course. Click for Course Student Learning Outcomes</td>
<td></td>
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<tr>
<td>NUTR 210</td>
<td>Nutrition</td>
<td>3.00</td>
<td>3.00</td>
<td>(3.00/0.00)</td>
<td>Degree Applicable</td>
<td>ENGL 156</td>
<td>Examines nutritional needs throughout the life cycle including the interpretation of the chemical composition of food as applied to the utilization of nutrients in the body. Transfer: CSU UC C-ID NUTR 110 Click for Course Student Learning Outcomes</td>
<td></td>
</tr>
</tbody>
</table>
NUTR 211  INTRODUCTION TO NUTRITION FOR HEALTH PROFESSIONALS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Studies the nutritional needs of the human life cycle and examines the biological function and chemical classification of nutrients. Relates nutrition concepts to health and disease. This course is designed for current or prospective members of health professions such as nurses, physicians, physician assistants, dietitians, dentists, dental hygienists, physical therapists and occupational therapists.
Transfer: CSU
Click for Course Student Learning Outcomes

NUTR 218  MATERNAL AND CHILD NUTRITION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines the nutritional requirements of the pregnant woman, developing fetus, infant, toddler and child.
Transfer: CSU
Click for Course Student Learning Outcomes

NUTR 222  CULTURAL ASPECTS OF FOOD 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: NUTR 210
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
Click for Course Student Learning Outcomes

NUTR 224  GERONTOLOGICAL NUTRITION 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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
Click for Course Student Learning Outcomes

NUTR 230  NUTRITION FOR FITNESS AND SPORT 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
Click for Course Student Learning Outcomes

NUTR 232  PRINCIPLES OF FOOD WITH LAB 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Applies food science principles with emphasis on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutritional values.
Transfer: CSU
Click for Course Student Learning Outcomes

OCEN 210  OCEANOGRAPHY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: MATH 123
Advisories: ENGL 156
An introductory course designed to acquaint the student with general oceanography. Topics treated include 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
Click for Course Student Learning Outcomes

OCEN 210L  OCEANOGRAPHY LABORATORY 1.00
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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
Click for Course Student Learning Outcomes
**PLGL 201  INTRODUCTION TO PARALEGAL STUDIES  3.00**

5.00 hours per week: (2.00 lecture hours/3.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: ENGL 156

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

Click for Course Student Learning Outcomes

**PLGL 203  PARALEGAL INTERNSHIP  3.00**

8.00 hours per week: (2.50 lecture hours/5.50 lab hours)

Credit - Degree Applicable

Letter Grade Only

Advisories: PLGL 220, PLGL 201, PLGL 205

Provides students an opportunity to experience the responsibilities of an employee in a legal setting related to their courses in paralegal studies.

Transfer: CSU

Click for Course Student Learning Outcomes

**PLGL 205  CIVIL PROCEDURE and LITIGATION  4.00**

5.00 hours per week: (3.50 lecture hours/1.50 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: ENGL 156

Introduces the principles and management of civil litigation in state and federal courts including pretrial, trial, and post trial practice and procedures. Covers pleadings, discovery, pretrial motions, trial preparation, trial motions, trial assistance, post trial motions, enforcement of judgments, and appeals. Procedures used in case settlement and in alternative dispute resolution such as mediation and arbitration will also be covered.

Transfer: CSU

Click for Course Student Learning Outcomes

**PLGL 206  BUSINESS ORGANIZATIONS  3.00**

(Formerly LGL206)

4.00 hours per week: (2.50 lecture hours/1.50 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: ENGL 156

Introduces the student to the substantive law and procedural aspects of business organizations, including sole proprietorships, partner ships, 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**  
Click for Course Student Learning Outcomes

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**PLGL 207 FAMILY LAW**  
(Formerly PLGL107, LGL207)  
3.00  
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156  
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, paternity, adoption, and domestic violence.

**Transfer: CSU**  
Click for Course Student Learning Outcomes

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**PLGL 208 ESTATE PLANNING AND ADMINISTRATION**  
(Formerly LGL208)  
3.00  
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156  
Introduces the fundamental principles of estate planning and administration along with the terminology, procedures, and legal document and form preparation involved in estate planning and administration matters. Topics cover aspects of estate planning including the preparation of wills, trusts, and related documents along with aspects of estate administration including probate proceedings and estate disposition outside of probate.

**Transfer: CSU**  
Click for Course Student Learning Outcomes

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**PLGL 209 TECHNOLOGY IN THE LAW OFFICE**  
3.00  
4.00 hours per week: (2.50 lecture hours/1.50 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: CIS 210  
Introduces the student to the use of technology by paralegals in the law office. Includes an overview of technology in the law office and the ethical issues raised by the use of such technology. Covers computer applications in the law office including word processing and document assembly, spreadsheets, database management, law office management, case management and litigation support as well as electronic discovery. Also covers computer assisted legal research including CD-ROM and internet legal and factual research.

**Transfer: CSU**  
Click for Course Student Learning Outcomes

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**PLGL 220 LEGAL RESEARCH AND WRITING**  
(Formerly LGL220)  
4.00  
4.00 hours per week: (4.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A  
Provides an introduction to the fundamental aspects of legal research by an in-depth analysis of case law, statutory law, and administrative law on both a federal and state level. Students will learn to locate authority relevant to selected legal issues. This skill is applied to writing clear and concise briefs, opinion letters, and memoranda, employing the IRAC (issue, rule, analysis, conclusion) legal analytical formula.

**Transfer: CSU**  
Click for Course Student Learning Outcomes

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**PARAMEDIC**

**SEE EMERGENCY MEDICAL SERVICES**

**PERSONAL DEVELOPMENT STUDIES**

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**Peds 110 CAREER PLANNING: COMPREHENSIVE**  
(Formerly WEXP110)  
3.00  
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Advisories: ENGL 156  
Introduces a decision-making process that will help students envision and plan for a future that is productive, achievable, and stimulating. The culmination of this process is the development of an online career and education 10-year plan that can be used for advisory and academic coaching purposes and updated as students grow, change, or face transitions. The personalized 10-year plan provides the focus and intrinsic motivation to succeed in college, at work, and in life.

**Click for Course Student Learning Outcomes**

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**Peds 111 CAREER PLANNING: ATTITUDES AND APTITUDES**  
1.00  
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
P/NP Only  
Presents students with the second installment of an online career and education 10-year plan. The personalized 10-year plan provides the focus and intrinsic motivation to succeed in college, at work, and in life. Students revisist the plan as they explore the following: how their year-to-year changes impact lifestyle, career and education goals; high-demand careers that match their interests and aptitudes; education and training options and how to make school affordable; skills needed for college and career success; and how to update their 10-year plan to keep their future on schedule.

**Click for Course Student Learning Outcomes**
### PEDS 112 CAREER PLANNING: POST-SECONDARY EDUCATION PATH  1.00

1.00 hours per week: (1.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable  
P/NP Only

Presents students with the third installment of an online career and education 10-year plan. The personalized 10-year plan provides the focus and intrinsic motivation to succeed in college, at work, and in life. Students explore the following: determining a major and college or post-secondary educational options; writing important documents, such as a resume, college essay, and planning timelines; and developing an educational plan that will assure they are college and career ready.  
Click for Course Student Learning Outcomes

### PEDS 113 CAREER PLANNING: ACTING UPON THE 10-YEAR PLAN  1.00

1.00 hours per week: (1.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable  
P/NP Only

Presents students with the fourth and last installment of an online career and education 10-year plan. The personalized 10-year plan provides the focus and intrinsic motivation to succeed in college, at work, and in life. Students explore the following: developing a post-secondary education and training paths; writing a resume, college or job applications, admissions essays and timelines; and designing an education plan to assure they are college and career ready.  
Click for Course Student Learning Outcomes

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### PHILOSOPHY

#### PHIL 205 INTRODUCTION TO THE BIBLE  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: 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  
Click for Course Student Learning Outcomes

#### PHIL 206 INTRODUCTION TO PHILOSOPHY  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156

Introduces the ideas and methods of major philosophers through the critical reading of selections from primary texts. Emphasis will be placed on the philosophical subfields of metaphysics, epistemology, and ethics. May also include philosophical examination of topics in religion, science, language, art, or politics.  
Transfer: CSU; UC  
C-ID PHIL 100  
Click for Course Student Learning Outcomes

#### PHIL 208 INTRODUCTION TO LOGIC  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156

Introduces the basic principles of both deductive and inductive reasoning. Treatment of deductive reasoning emphasizes translation, truth tables, and natural deduction in sentential logic. Treatment of inductive reasoning emphasizes inductive argument forms, functions of language, and informal fallacies.  
Transfer: CSU; UC  
C-ID PHIL 110  
Click for Course Student Learning Outcomes

#### PHIL 209 WORLD RELIGIONS  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Transfer: CSU; UC  
Click for Course Student Learning Outcomes

#### PHIL 212 PHILOSOPHICAL CLASSICS IN THEORY OF REALITY AND OF KNOWLEDGE  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Transfer: CSU; UC  
Click for Course Student Learning Outcomes

#### PHIL 213 PHILOSOPHICAL CLASSICS IN ETHICS AND SOCIAL PHILOSOPHY  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 201A

Studies problems in ethics and social philosophy by critically analyzing a selection of classic texts.  
Transfer: CSU; UC  
C-ID PHIL 120  
Click for Course Student Learning Outcomes

#### PHIL 247 INDEPENDENT STUDIES: PHILOSOPHY  0.50 to 2.00

1.50 - 6.00 hours per week: (0.00 - 6.00 lecture hours/1.50 - 6.00 lab hours)  

Credit - Degree Applicable  
Letter Grade or P/NP  
Prerequisites: 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 or a practicum experience by an individual student in a selected topic of philosophy under the direction of an instructor.  
Transfer: CSU  
Click for Course Student Learning Outcomes
## PHLEBOTOMY

See Medical Assisting

## PHYSICS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours per week:</th>
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<th>Degree Applicable</th>
<th>Prerequisites</th>
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<tr>
<td>PHYS 193</td>
<td>Physics Special Topic</td>
<td>0.50 to 4.00</td>
<td>0.00 - 0.00 lecture hours/0.00 - 0.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>Examines a special topic in the field of study related to the discipline offering this course. Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>PHYS 193C</td>
<td>Field Studies in Physics</td>
<td>1.00</td>
<td>1.00 lecture hours/0.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade or P/NP</td>
<td>Explores the principles of nuclear physics at the particle accelerator in CERN, Switzerland. Click for Course Student Learning Outcomes</td>
</tr>
<tr>
<td>PHYS 193E</td>
<td>Advanced Problem Solving for PHYS 208B</td>
<td>1.00</td>
<td>1.00 lecture hours/0.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>P/NP Only</td>
<td>Corequisites: PHYS 208B</td>
</tr>
<tr>
<td>PHYS 205A</td>
<td>General Physics</td>
<td>4.00</td>
<td>6.00 lecture hours/3.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>Prerequisites: MATH 229 or MATH 231</td>
</tr>
<tr>
<td>PHYS 205B</td>
<td>General Physics</td>
<td>4.00</td>
<td>6.00 lecture hours/3.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>Prerequisites: PHYS 205A</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<th>Prerequisites:</th>
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<tbody>
<tr>
<td>PHYS 208A</td>
<td>Principles of Physics I</td>
<td>5.00</td>
<td>7.00 lecture hours/3.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>MATH 265A or equivalent</td>
<td>Presents the principles of statics and dynamics of particles and rigid bodies, fluids, harmonic motion, heat and thermodynamics using calculus. Transfer: CSU; UC</td>
</tr>
<tr>
<td>PHYS 208A-X</td>
<td>Directed Problem Solving Methods for PHYS 208A</td>
<td>1.00</td>
<td>1.00 lecture hours/0.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>P/NP Only</td>
<td>PHYS 208A</td>
<td>Presents problem-solving and fundamental reasoning skills needed for success in PHYS 208A, Principles of Physics I. This course is designed for students who are currently enrolled in PHYS 208A and seek to improve their problem solving skills and mastery of concepts presented in PHYS 208A. Topics include specific techniques for solving kinematics, force, energy, momentum, torque, thermodynamics, fluid mechanics, and simple harmonic motion problems, analysis of word problems, and the development of solution maps. Transfer: CSU; UC</td>
</tr>
<tr>
<td>PHYS 208B</td>
<td>Principles of Physics II</td>
<td>5.00</td>
<td>7.00 lecture hours/3.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>Letter Grade Only</td>
<td>MATH 265B or equivalent and PHYS 208A</td>
<td>Presents the principles of wave motion, sound, geometric and physical optics, static and dynamic electricity and magnetism, D.C. and A.C. circuit theory and electromagnetic waves using calculus. Transfer: CSU</td>
</tr>
<tr>
<td>PHYS 208B-X</td>
<td>Directed Problem Solving Methods for PHYS 208B</td>
<td>1.00</td>
<td>1.00 lecture hours/0.00 lab hours</td>
<td>Credit - Degree Applicable</td>
<td>P/NP Only</td>
<td>PHYS 208B</td>
<td>Presents problem-solving and fundamental reasoning skills needed for success in PHYS 208B, Principles of Physics II. This course is designed for students who are currently enrolled in PHYS 208B and seek to improve their problem solving skills and mastery of concepts presented in PHYS 208B. Topics include specific techniques for modeling wave phenomena including sound, electromagnetic, and physical waves, and problem solving techniques utilized in charged systems subjected to magnetic fields. Transfer: CSU</td>
</tr>
</tbody>
</table>
PHYS 208C MODERN PHYSICS 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: PHYS 208B
Presents the principles of relativity, waves and particles, Bohr theory, quantum mechanics and Schroedinger's equation, elementary atomic structure, nuclear structure and radioactivity using calculus and vector algebra. Transfer: CSU; UC
C-ID PHYS 215. PHYS 208A+208B+208C = C-ID PHYS 200S
Click for Course Student Learning Outcomes

PHYS 208A MODERN PHYSICS 4.00
6.00 hours per week: (3.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: PHYS 208B
Presents the principles of relativity, waves and particles, Bohr theory, quantum mechanics and Schroedinger's equation, elementary atomic structure, nuclear structure and radioactivity using calculus and vector algebra. Transfer: CSU; UC
C-ID PHYS 215. PHYS 208A+208B+208C = C-ID PHYS 200S
Click for Course Student Learning Outcomes

PHYS 218 APPLIED PROBLEMS FOR CALCULUS-BASED PHYSICS 1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only
Corequisites: PHYS 208A or PHYS 208B
Develops problem-solving skills that directly assist student mastery of concepts presented in PHYS 208 classes. Transfer: CSU; UC
Click for Course Student Learning Outcomes

POLITICAL SCIENCE

POLS 201 INTRODUCTION TO POLITICAL SCIENCE 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Surveys the scope, methods and theories of political science with special emphasis on contemporary political issues and problems. Transfer: CSU; UC
C-ID POLS 150
Click for Course Student Learning Outcomes

POLS 202 GOVERNMENT AND POLITICS OF THE UNITED STATES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
C-ID POLS 110
Click for Course Student Learning Outcomes

POLS 204 WORLD POLITICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Examines the nature of relations among states. Analyzes the basic forces affecting the formulation and implementation 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, and the consequences of those contemporary problems. Transfer: CSU; UC
C-ID POLS 140
Click for Course Student Learning Outcomes

POLS 205 LAW AND POLITICS 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: 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
Click for Course Student Learning Outcomes

POLS 206 COMPARATIVE GOVERNMENT 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Compares and analyzes different kinds of political systems; their history, political institutions, political processes, and the environments in which they occur and their consequences. Transfer: CSU; UC
C-ID POLS 130
Click for Course Student Learning Outcomes

POLS 209 INTRODUCTION TO POLITICAL THEORY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: POLS 201 and 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
C-ID POLS 120
Click for Course Student Learning Outcomes

POLS 247 INDEPENDENT STUDIES: POLITICAL SCIENCE 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
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
Click for Course Student Learning Outcomes

PROFESSIONAL DEVELOPMENT STUDIES

PDS 101 SURVEY OF OFFICE PROCEDURES 1.00
(Formerly WEXP193R, WEXP143)
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of professional office procedures in a hands-on learning environment, with an emphasis on the foundational knowledge and skills required for a basic
entry level administrative office support position.  
Click for Course Student Learning Outcomes

**PDS 102**  
**SURVEY OF RETAIL PROCEDURES**  
1.00  
(Formerly WEXP 193T, WEXP145)  
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)  
Credit - Not Degree Applicable  
P/NP Only  

Presents a basic overview of professional retail procedures in a hands-on environment, with an emphasis on the foundational knowledge and skills required for basic entry-level retail positions.  
Click for Course Student Learning Outcomes

**PDS 120A**  
**BEGINNING COMPUTER KEYBOARDING AND DOCUMENT PROCESSING**  
3.00  
(Formerly CAOA20A, CAOA120A)  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  
Advisories: ENGL 156  

Designed for all students whose keyboarding skill will be primary and/or secondary to their vocation and/or 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.  
Click for Course Student Learning Outcomes

**PDS 120B**  
**INTERMEDIATE COMPUTER KEYBOARDING AND DOCUMENT PROCESSING**  
3.00  
(Formerly CAOA20B, CAOA120B)  
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

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.  
Click for Course Student Learning Outcomes

**PDS 150**  
**PROJECT MANAGEMENT FUNDAMENTALS**  
1.00  
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

Provides students with an overview of the concepts, tools, techniques and results of successful project management. Using hands-on learning activities, this course investigates the role and responsibilities of the Project Manager and introduces the student to the steps involved in planning and managing a project from beginning to end.  
Click for Course Student Learning Outcomes

**PDS 162**  
**INTRODUCTION TO BEGINNING COMPUTER KEYBOARDING**  
1.00  
(Formerly CAOA62, CAOA162)  
1.50 hours per week: (0.75 lecture hours/0.75 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

Introduces typing fundamentals, machine functions, keyboard use, and speed and accuracy drills. Designed to develop a minimum typing speed of 20 words a minute.  
Click for Course Student Learning Outcomes

**PDS 166**  
**INTRODUCTION TO COMPUTER BASICS**  
1.00  
(Formerly CAOA66, CAOA266)  
1.50 hours per week: (1.00 lecture hours/0.50 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

Covers the basics of the computer's Windows operating system. Includes working with folders and files, customizing the operating system environment, using a browser to explore and search the World Wide Web.  
Click for Course Student Learning Outcomes

**PDS 170**  
**DEALING WITH CHANGE**  
0.50  
(Formerly BUS170)  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

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 and individual change, theoretical models of change, and how to manage change.  
Click for Course Student Learning Outcomes

**PDS 171**  
**TEAM BUILDING**  
0.50  
(Formerly BUS171)  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

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.  
Click for Course Student Learning Outcomes

**PDS 172**  
**COMMUNICATING WITH PEOPLE**  
0.50  
(Formerly BUS172)  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

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.  
Click for Course Student Learning Outcomes

**PDS 173**  
**CONFLICT RESOLUTION**  
0.50  
(Formerly BUS173)  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

Provides the student with an analysis of attitudes and behavior which create conflict between individuals and groups within an organization.  
Click for Course Student Learning Outcomes

**PDS 174**  
**CUSTOMER SERVICE**  
0.50  
(Formerly BUS174)  
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)  
Credit - Degree Applicable  
Letter Grade or P/NP  

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.

PDS 175 VALUES & ETHICS 0.50
(Formerly BUS175)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Acquaints the student with the importance of values and ethics in the workplace. The importance of values and ethics involved in carrying out one's duties will be emphasized.

PDS 176 ATTITUDE IN THE WORKPLACE 0.50
(Formerly BUS176)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.

PDS 177 STRESS MANAGEMENT 0.50
(Formerly BUS177)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Acquaints the student with various skills the supervisor needs to help employees. Included is the recognition of stress and how to manage it.

PDS 178 DECISION MAKING & PROBLEM SOLVING 0.50
(Formerly BUS178)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces the student to decision making and problem solving for the workplace.

PDS 179 TIME MANAGEMENT 0.50
(Formerly BUS179)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Introduces the student to time management principles and specific tools that assist in making maximum use of time.

PDS 181 PROFESSIONAL IMAGE: APPEARANCE, ETIQUETTE & NETWORKING 0.50
(Formerly BUS181)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Engages the student in discussions and activities related to the significance of personal appearance, business appropriate behavior and etiquette, as well the process of network-
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 responsibility to supervise others.

Click for Course Student Learning Outcomes

**PDS 194  SUPERVISION AND MANAGEMENT ACADEMY: MAKING CONSCIOUS, STRATEGIC DECISIONS 0.50**
(Formerly BUS194)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

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.

Click for Course Student Learning Outcomes

**PDS 195  SUPERVISION AND MANAGEMENT ACADEMY: MOTIVATING PERFORMANCE THROUGH FEEDBACK AND DELEGATION 0.50**
(Formerly BUS195)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

Advance the students’ success at using delegation as a motivational and time management tool. This course is specially designed for currently employed managers needing to effectively supervise employees.

Click for Course Student Learning Outcomes

**PDS 197  SUPERVISION AND MANAGEMENT ACADEMY: LEADING A DIVERSE TEAM 0.50**
(Formerly BUS197)
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP

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.

Click for Course Student Learning Outcomes

**PDS 520B  INTERMEDIATE COMPUTER KEYBOARDING AND DOCUMENT PROCESSING 0**
(Formerly BUS520B)
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Noncredit
Non-credit Course
Advisories: PDS 120A, PDS 520A 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.

Click for Course Student Learning Outcomes

**PDS 520S  SPEED AND ACCURACY COMPUTER KEYBOARDING 0**
(Formerly BUS520S)
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Noncredit
Non-credit Course
Advisories: Ability to type 20 words per minute or successful completion of PDS 120A.

Increases skills in typing speed and accuracy. Emphasizes keyboarding basics through keystroking analysis and corrective drills.

Repeatable.

Click for Course Student Learning Outcomes

**PDS 562  INTRODUCTION TO BEGINNING COMPUTER KEYBOARDING 0**
(Formerly BUS562)
1.50 hours per week: (0.75 lecture hours/0.75 lab hours)
Noncredit
Non-credit Course

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.

Click for Course Student Learning Outcomes

**PSYT 110  INTRODUCTION TO PSYCHIATRIC TECHNICIAN 6.50**
6.67 hours per week: (6.67 lecture hours/0.00 lab hours)
Credit - Degree Applicable
P/NP Only

Prerequisites: Admission to the Psychiatric Technician Program

Introductory 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.

Click for Course Student Learning Outcomes

**PSYT 193  PSYCHIATRIC TECHNICIAN SPECIAL TOPIC 0.50 to 4.00**
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade Only

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

Click for Course Student Learning Outcomes
PSYT 207 NURSING SCIENCE 19.00
31.12 hours per week: (13.56 lecture hours/17.56 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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
Click for Course Student Learning Outcomes

PSYT 208 CARE OF THE DEVELOPMENTALLY DISABLED 17.50
30.17 hours per week: (11.50 lecture hours/18.67 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: PSYT 207
Transfer: CSU
Click for Course Student Learning Outcomes

PSYT 209 PSYCHIATRIC NURSING 18.50
31.12 hours per week: (12.56 lecture hours/18.56 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: PSYT 207
Transfer: CSU
Click for Course Student Learning Outcomes

PSYC 200 RESEARCH METHODS FOR THE BEHAVIORAL AND SOCIAL SCIENCES 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: PSYC 201
Introduces research methods used in psychology and other social sciences. Topics include the logic and ethics of research; descriptive, correlational, and experimental methodology; instrumentation; strategies for searching research literature; basic statistical reasoning and methods; and the collection, analysis, interpretation, and reporting of research data.
Transfer: CSU; UC
C-ID PSY 170
Click for Course Student Learning Outcomes

PSYC 201 INTRODUCTORY PSYCHOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: ENGL 156
Introduces psychology as the study of behavior and mental processes involving biological, psychological and social influences that provide the basis for human experience. Principles involved in brain function, learning, development, motivation, perception, personality and social adjustment present the basic concepts, vocabulary and methods of psychology.
Transfer: CSU; UC
C-ID PSY 110
Click for Course Student Learning Outcomes

PSYC 202 INTRODUCTION TO BIOLOGICAL PSYCHOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: PSYC 201
Introduces an analysis of the biological bases of behavior and mental processes in terms of evolutionary, genetic, anatomical and physiological determinants. Examines heredity, development, cognitive processes, and the function of the nervous and endocrine systems.
Transfer: CSU; UC
C-ID PSY 150
Click for Course Student Learning Outcomes

PSYC 206 INTRODUCTION TO SOCIAL PSYCHOLOGY 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: PSYC 201
This course considers individual human behavior in relation to the social environment. The power of the situation, other individuals, and the social group will be examined. Emphasized topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity, group phenomena, gender roles, cultural norms, person perception, and social cognition.
Transfer: UC
C-ID PSY 170
Click for Course Student Learning Outcomes

PSYC 233 PERSONALITY AND ADJUSTMENT 3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: PSYC 201
Introduces the scientific study of personality with an applied focus on how psychological science is used for personal growth and adjustment to life experiences. The course surveys different psychological perspectives and theoretical foundations of personality development and change, with consideration of the influence of personal relationships, culture, gender, ethnicity, historical context, and socioeconomic status.
Transfer: CSU; UC
C-ID PSY 115
Click for Course Student Learning Outcomes
### PSYC 247 INDEPENDENT STUDIES: PSYCHOLOGY  0.50 to 2.00

1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Prerequisites: 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.

Transfer: CSU

Click for Course Student Learning Outcomes

### RECREATION ADMINISTRATION

#### REC 201 INTRODUCTION TO RECREATION AND LEISURE SERVICES  3.00

(Formerly PETH207, REC207)

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade Only

Advisories: 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

Click for Course Student Learning Outcomes

#### REC 203 INTRAMURAL AND RECREATIONAL SPORT PROGRAMMING  3.00

(Formerly PETH203)

4.00 hours per week: (2.50 lecture hours/1.50 lab hours)

Credit - Degree Applicable

Letter Grade Only

Advisories: 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

Click for Course Student Learning Outcomes

#### REC 204 RECREATION PROGRAM PLANNING  3.00

(Formerly PETH204)

4.00 hours per week: (2.50 lecture hours/1.50 lab hours)

Credit - Degree Applicable

Letter Grade Only

Advisories: 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

Click for Course Student Learning Outcomes

### SOCIOLOGY

#### SOC 201A INTRODUCTION TO SOCIOLOGY  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: 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

C-ID SOCI 110

Click for Course Student Learning Outcomes

#### SOC 201B SOCIAL INSTITUTIONS  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: SOC 201A and ENGL 156

Studies the major social institutions, both the traditional ideas of social institutions (family, education, economic, religion, and government/political) and contemporary ideas of social institutions (science, mass media, medicine, sports, and the military). The structures and functions of social institutions will be covered. This course also considers major works and draws comparisons between our institutions and those of other societies.

Transfer: CSU; UC

C-ID SOCI 115

Click for Course Student Learning Outcomes

#### SOC 202 SOCIAL PROBLEMS  3.00

3.00 hours per week: (3.00 lecture hours/0.00 lab hours)

Credit - Degree Applicable

Letter Grade or P/NP

Advisories: SOC 201A and 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

C-ID SOCI 115

Click for Course Student Learning Outcomes
SOC 204  INTRODUCTION TO CRIMINOLOGY  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: SOC 201A and 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; UC
C-ID SOCI 160
Click for Course Student Learning Outcomes

SOC 206  RACE AND ETHNIC RELATIONS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
C-ID SOCI 150
Click for Course Student Learning Outcomes

SOC 208  INTRODUCTION TO GENDER STUDIES  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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
C-ID SOCI 140
Click for Course Student Learning Outcomes

SOC 247  INDEPENDENT STUDIES: SOCIOLOGY  0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

SPAN 193  SPANISH SPECIAL TOPIC  0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

SPAN 201  SPANISH I  5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Presents a topic-based, introductory language acquisition course in standard contemporary Spanish, with emphasis on listening comprehension, oral interaction, culture-centered readings, and writing of basic Spanish. Social and cultural aspects of the Spanish-speaking world are presented along with the most essential structures and vocabulary. Typed written exercises and online multimedia practice activities are required.
Transfer: CSU; UC
C-ID SPAN 100
Click for Course Student Learning Outcomes

SPAN 202  SPANISH II  5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: SPAN 201 or equivalent
Presents a continuation of SPAN 201 with a topic-centered, intensive practice in listening comprehension, oral interaction, and writing. Selected readings from the Hispanic world include cultural vignettes, prose selections, and poetry. Typed written exercises and online multimedia practice activities are required.
Transfer: CSU; UC
C-ID SPAN 110
Click for Course Student Learning Outcomes

SPAN 203  SPANISH III  5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: SPAN 202 or equivalent
Presents a continuation of SPAN 202 incorporating a review with topic-centered intensive practice in listening comprehension, oral interaction, and paragraph writing. Selected readings from the Hispanic world include social, cultural, and history-themed vignettes, prose selections, and poetry. Typed written exercises and online multimedia practice activities are required.
Transfer: CSU; UC
C-ID SPAN 200
Click for Course Student Learning Outcomes

SPAN 204  SPANISH IV  5.00
5.00 hours per week: (5.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: SPAN 203 or equivalent
Presents an expansion of SPAN 203 focusing on 4 skills:
listening, conversation, reading and presentational writing. Drawing from authentic materials, SPAN 204 is an intermediate course that 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 complex situations. Online multimedia practice is required and includes audio and video and extensive online resources.

Transfer: CSU; UC
C-ID SPAN 210
Click for Course Student Learning Outcomes

SPAN 247 INDEPENDENT STUDIES: SPANISH 0.50 to 2.00
1.50 - 6.00 hours per week: (0.00 - 0.00 lecture hours/1.50 - 6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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; UC
Click for Course Student Learning Outcomes

VOCATIONAL ENGLISH AS A SECOND LANG

VESL 701 WORK-RELATED CONVERSATIONAL SKILLS, LEVEL 1 0
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Advisories: ESL placement evaluation or equivalent
Focuses on work-related conversation, reading, and writing for the non-native speaker at the beginning level. No English is required.
Repeatable.
Click for Course Student Learning Outcomes

VESL 702 WORK-RELATED CONVERSATIONAL SKILLS, LEVEL 2 0
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Advisories: VESL 701 or equivalent
Presents a continuation of VESL 701, focusing on work-related reading, conversation, and writing for the non-native speaker.
Repeatable.
Click for Course Student Learning Outcomes

VESL 715 COMMUNICATION SKILLS FOR WORKPLACE 0
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Noncredit
Non-credit Course
Focuses on the basic verbal communication skills and cultural knowledge needed in job readiness and job search in the United States.
Repeatable 3 time(s).
Click for Course Student Learning Outcomes

WELDING

WELD 101 SURVEY OF WELDING 2.00
4.00 hours per week: (1.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Provides welding process instruction to include Shielded Metal Arc Welding (SMAW), Oxy Acetylene Welding (OAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Flux Core Arc Welding (FCAW). Also includes instruction in Oxy Fuel Cutting (OFC) and Plasma Arc Cutting (PAC). Safety instruction will include industry standard Job Safety Analysis (JSA) with material from ANSI Z49.1.
Click for Course Student Learning Outcomes

WELD 175 BLUEPRINT READING AND MATERIALS PROCESSING 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: WELD 270A
Advisories: 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.
Click for Course Student Learning Outcomes

WELD 176 WELDING POWER 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WELD 193 WELDING TECHNOLOGY SPECIAL TOPIC 0.50 to 4.00
1.50 - 12.00 hours per week: (0.00 lecture hours/1.50 - 12.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Examines a special topic in the field of study related to the discipline offering this course.
Click for Course Student Learning Outcomes

WELD 247 INDEPENDENT STUDIES: METALS TECHNOLOGY 2.00
6.00 hours per week: (0.00 lecture hours/6.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.

Transfer: CSU
Click for Course Student Learning Outcomes

WELD 270A BASIC WELDING 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
 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, metallurgy, 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.
Transfer: CSU
Click for Course Student Learning Outcomes

WELD 270B ADVANCED WELDING 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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
Click for Course Student Learning Outcomes

WELD 270C WELDING: GMAW & GTAW 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Prerequisites: 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 nonferrous materials.
Transfer: CSU
Click for Course Student Learning Outcomes

WELD 273 METALLURGY 3.00
5.00 hours per week: (2.00 lecture hours/3.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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
Click for Course Student Learning Outcomes

WELD 277 METAL FABRICATION 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

WELD 280A STRUCTURAL STEEL WELDING CERTIFICATION 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
Advisories: 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.
Transfer: CSU
Click for Course Student Learning Outcomes

WELD 280B PIPE WELDING CERTIFICATION 3.00
6.00 hours per week: (2.00 lecture hours/4.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Advisories: WELD 270B
Prepares the student to meet industry standards in Shielded Metal Arc Welding (SMAW) on plate and pipe, as well as introduces Gas Tungsten Arc Welding (GTAW) on pipe. Includes workmanship and pipe fitting techniques, providing opportunity for certification to the American Society of Mechanical Engineers (ASME) Section IX Boiler and Pressure Vessel code.
Transfer: CSU
Click for Course Student Learning Outcomes

WELLNESS

WELL 000 ADULT FITNESS 0
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Noncredit
Non-credit Course
Presents an opportunity to begin or continue a lifetime fitness program. Students will participate in activities developing flexibility, muscular endurance, muscular strength, cardiovascular and general conditioning. Group or individual activities may include weight training, aerobics, step training, running, walking, water exercise, resistance workout, use of exercise equipment, etc.
Repeatable.
Click for Course Student Learning Outcomes

WELL 001 ADAPTED AQUATICS 0
3.00 hours per week: (0.00 lecture hours/3.00 lab hours)
Noncredit
Non-credit Course
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.
Click for Course Student Learning Outcomes
WORK EXPERIENCE

WEXP 012  LIFE SKILLS FOR SUCCESS A: WHO AM I?  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 013  LIFE SKILLS FOR SUCCESS B: HOW DO I DECIDE?  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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 fostering the skills needed to live and thrive in our society.
Click for Course Student Learning Outcomes

WEXP 014  LIFE SKILLS FOR SUCCESS C: HOW MUCH DO I NEED?  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 015  LIFE SKILLS FOR SUCCESS D: STAYING HEALTHY  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 016  LIFE SKILLS FOR SUCCESS E: FINDING YOUR FUTURE  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 017  LIFE SKILLS FOR SUCCESS F: COMMUNITY LIVING A  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 018  LIFE SKILLS FOR SUCCESS Q: COMMUNITY LIVING B  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 019  LIFE SKILLS FOR SUCCESS R: LIVING HEALTHY RELATIONSHIPS  1.00
1.00 hours per week: (1.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
Letter Grade or P/NP
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.
Click for Course Student Learning Outcomes

WEXP 030  WELLNESS ARTS  2.00
(Formerly ACSK093A)
3.00 hours per week: (1.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Advisories: Consult with Wellness Arts Coordinator
Presents art as a tool for processing, expressing and managing mental health issues as they relate to succeeding in a college environment. Examines internal and external factors that affect wellness in the college setting and strategies for managing them. Provides skills for establishing and assessing educational goals. Creates an atmosphere for team-building and self-discovery. Designed for students who struggle with levels of anxiety, sadness, intrusive thoughts, and social phobia that may make attending and succeeding in college difficult.
Click for Course Student Learning Outcomes
**WEXP 111 WORKPLACE READINESS FUNDAMENTALS** 3.00
(Formerly WEXP210)
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Introduces fundamentals of workplace readiness, job search and job retention. Students will gain an understanding of the role and value of working; identify and implement steps involved in obtaining employment; identify and demonstrate the employability skills associated with maintaining employment; and describe and apply basic employee money management skills.
Click for Course Student Learning Outcomes

**WEXP 131 MENTAL HEALTH FIRST AID** 0.50
0.50 hours per week: (0.50 lecture hours/0.00 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents the 5-step action plan of Mental Health First Aid, an internationally recognized certificate training in identifying and responding in a potential mental health crisis. This first aid aims to preserve life when a person may be a danger to self or others, provide help to prevent the problem from becoming more serious, promote and enhance recovery, and provide comfort and support.
Click for Course Student Learning Outcomes

**WEXP 140 SURVEY OF AUTOMOTIVE MECHANICS** 1.00
(Formerly WEXP193O)
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of the automotive mechanics industry in a hands-on learning environment, with an emphasis on the foundational knowledge and skills required for a basic entry level position.
Click for Course Student Learning Outcomes

**WEXP 141 SURVEY OF AUTOMOBILE BODY REPAIR** 1.00
(Formerly WEXP193P)
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of the auto body repair industry in a hands-on learning environment, with an emphasis on the foundational knowledge and skills required for a basic entry level position.
Click for Course Student Learning Outcomes

**WEXP 142 SURVEY OF MOTION PICTURE AND TELEVISION PRODUCTION** 1.00
(Formerly WEXP193Q)
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of electronic filmmaking and television production in a hands-on environment, with an emphasis on the foundational knowledge and skills required for a basic entry level position.
Click for Course Student Learning Outcomes

**WEXP 146 SURVEY OF WEB DESIGN** 1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Not Degree Applicable
P/NP Only
Presents a basic overview of web design in a hands-on environment, with an introduction to the knowledge and skills needed for positions in web design.
Click for Course Student Learning Outcomes

**WEXP 147 INDEPENDENT STUDIES: WORK EXPERIENCE** 0.50 to 4.00
0.00 - 0.00 hours per week: (0.00 lecture hours)
Credit - Degree Applicable
Letter Grade or P/NP
Prerequisites: 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 practical experience by an individual student in a selected topic of Work Experience under the direction of an instructor.
Click for Course Student Learning Outcomes

**WEXP 193 WORK EXPERIENCE SPECIAL TOPICS** 0.50 to 4.00
30.00 - 300.00 hours per week: (30.00 - 300.00 lab hours)
Credit - Degree Applicable
Letter Grade Only
Examines a special topic in the field of study related to the discipline offering this course. Occupational Work Experience Education - This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. Credit may be accrued at the rate of 1 to 8 units per semester for a total of 16 units. Additionally, students must work 75 paid hours or 60 non-paid hours per units earned.
Click for Course Student Learning Outcomes

**WEXP 193R SURVEY OF OFFICE PROCEDURES** 1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
P/NP Only
Presents a basic overview of professional office procedures, with an emphasis on the foundational knowledge and skills required for basic entry level administrative office support.
Click for Course Student Learning Outcomes

**WEXP 193S SURVEY OF RESIDENTIAL CONSTRUCTION** 1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
P/NP Only
Presents a basic overview of the residential construction industry, with an emphasis on the foundational knowledge and skills required for basic entry-level construction trades positions.
Click for Course Student Learning Outcomes

**WEXP 193T SURVEY OF RETAIL PROCEDURES** 1.00
2.00 hours per week: (0.50 lecture hours/1.50 lab hours)
Credit - Degree Applicable
P/NP Only
Presents a basic overview of professional retail procedures, with an emphasis on the foundational knowledge and skills required for basic entry-level retail positions.
Click for Course Student Learning Outcomes
WEXP 210  INTRODUCTION TO WORKPLACE READINESS  3.00
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Credit - Degree Applicable
Letter Grade or P/NP
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.
Transfer: CSU
Click for Course Student Learning Outcomes

WEXP 251L  COOPERATIVE WORK EXPERIENCE LAB – GENERAL  1.00 to 4.00
(Formerly WEXP151L)
3.33 -16.66 hours per week: (0.00 - 0.00 lecture hours/3.33 -16.66 lab hours)
Credit - Degree Applicable
Letter Grade Only
Provides opportunities for working students to acquire and demonstrate desirable work habits, attitudes, and skills in the workplace. Employment need not be related to the students’ educational goals.
Repeatable 3 time(s).
Transfer: CSU
Click for Course Student Learning Outcomes

WEXP 252L  COOPERATIVE WORK EXPERIENCE LAB – OCCUPATIONAL  1.00 to 4.00
3.33 -16.66 hours per week: (0.00 - 0.00 lecture hours/3.33 -16.66 lab hours)
Credit - Degree Applicable
Letter Grade Only
Provides opportunities for working students to acquire and demonstrate work habits, attitudes, and skills in the workplace. Employment is related to the students’ educational goals.
Repeatable 3 time(s).
Transfer: CSU
Click for Course Student Learning Outcomes

WEXP 510  INTRODUCTION TO WORKPLACE READINESS  0
3.00 hours per week: (3.00 lecture hours/0.00 lab hours)
Noncredit
Non-credit Course
Introduces fundamentals of workplace readiness and job retention. Students will gain an understanding of the role and value of working; identify and implement steps involved in obtaining employment; identify and demonstrate the employability skills associated with maintaining employment; and describe and apply basic employee money management skills.
Repeatable 3 time(s).
Click for Course Student Learning Outcomes