

## ENGINEERING

### ENGR 100 INTRODUCTION TO ENGINEERING

*Units 3; Class Hours: Minimum of 32 lecture/32 lab /32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 130. Description:* Provides students with an understanding of the different fields of the engineering profession. It also introduces the students to the use of computers in the solution of a wide variety of engineering problems, and provides a basic understanding of engineering processes and tools, including experimentation, data analysis, and computer and communication skills. Throughout the course, emphasis is given to technical communications, engineering design and problem solving, and ethical considerations. A spreadsheet program (Microsoft Excel) and a high-level computer language (MATLAB) are an integral part of this course. Transfer: CSU, UC.

### ENGR 101 THE ENGINEERING PROFESSION

*Units 3; Class Hours: Minimum of 32 lecture/32 lab /32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 110 or 112. Description:* Provides students with knowledge of the engineering profession and its different fields; a basic understanding of engineering processes and tools, including experimentation, data analysis, and computer and communication skills applied to a wide variety of engineering problems. Throughout the course, emphasis is given to technical communications, engineering design and problem solving, and ethical considerations. A spreadsheet program (Microsoft Excel) and a high-level computer language (MATLAB) are an integral part of the course.

### ENGR 210 ENGINEERING GRAPHICS (CAN ENGR 2)

*Units 3; Class Hours: Minimum of 32 lecture/64 lab/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 130. Description:* An introduction to the engineering design process and graphical solutions of two- and three-dimensional design problems involving points, lines, surfaces, and solids. The course develops visualization skills and standard design drawing practices. The use of CAD (computer-aided design) software is an integral part of the course. Transfer: CSU, UC.

### ENGR 215 COMPUTATIONAL METHODS FOR ENGINEERS

*Units 3; Class Hours: Minimum of 32 lecture/48 lab hours/semester; Recommended: Eligibility for READ 420 and ENGL 100; Prerequisite(s): Completion of or concurrent enrollment in MATH 251. Description:* The course covers the fundamentals of procedural programming and computational methods for science and engineering. Topics include induction, iteration and recursion, approximations, floating-point computations and an introduction to data structures. Students perform laboratory projects that use the MATLAB programming language to solve problems and examples drawn from algebra, trigonometry, calculus and elementary physics. Transfer: CSU, UC.

### ENGR 230 STATICS (CAN ENGR 8)

*Units 3; Class Hours: Minimum of 48 lecture/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): PHYS 250. Description:* This course covers vector treatment of force systems acting on particles and rigid bodies; two- and three-dimensional problems; equilibrium problems involving trusses, frames, machines, distributed forces, fluid statics, internal forces and friction; centroids and moments of inertia; shear and moment diagrams for beams and virtual work. Transfer: CSU, UC.

### ENGR 240 ENGINEERING DYNAMICS

*Units 3; Class Hours: Minimum of 48 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): PHYS 250 and ENGR 230. Description:* This course covers fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar and three-dimensional motions of rigid bodies; D'Alembert's principle, work-energy and momentum principles for rigid body motion; introduction to mechanical vibrations. Transfer: CSU, UC.

### ENGR 260 CIRCUITS AND DEVICES

*Units 3; Class Hours: Minimum of 48 lecture/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 252 and PHYS 260; Corequisite(s): Concurrent enrollment in ENGR 261. Description:* An introduction to the theory and techniques of circuit analysis. Circuit laws and nomenclature, resistive circuits with DC sources, controlled sources, ideal operational amplifiers, natural and complete responses of first- and second-order circuits, steady-state sinusoidal analysis, power calculations, amplifiers, and three-phase circuits. MATH 275 is recommended. Transfer: CSU, UC.

### ENGR 261 CIRCUITS AND DEVICES LABORATORY

*Units 1; Class Hours: Minimum of 48 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 252 and PHYS 260; Corequisite(s): Concurrent enrollment in ENGR 260. Description:* Basic instruments and experimental techniques in electrical engineering. Oscilloscopes, function generators, and multiple-use meters. Measurement of voltage, current, frequency response, and transient response. Semiconductor devices, diodes, rectifiers, transistors, and integrated circuits. Circuit simulations using PSpice. MATH 275 is recommended. Transfer: CSU, UC.

### ENGR 270 MATERIALS SCIENCE (CAN ENGR 4)

*Units 3; Class Hours: Minimum of 32 lecture/48 lab/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 251 and CHEM 210. Description:* Application of basic principles of chemistry and physics to the mechanical, electrical, optical, thermal, magnetic and deteriorative properties of materials. Special emphasis is given to the relationship between microstructure and the properties of metals, polymers, ceramics, and semiconducting materials. (PHYS 250 is recommended prior to taking this course). Transfer: CSU, UC.

### ENGR 410 COMPUTER-AIDED GRAPHICS

*Units 1.5; Class Hours: Minimum of 16 lecture/32 lab/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 110 or 115. Description:* Introduces the engineering student to the basic principles of engineering graphics including computer-aided design and drafting (CADD), pictorial sketching, orthographic projections, dimensioning and tolerances, two- and three-dimensional construction techniques, and solid modeling. Transfer: CSU, UC\*.

**ENGR 413 DESIGNING WITH CAD**

*Units 1.5; Class Hours: 16 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): MATH 110 or 115. Description:* Principles of descriptive geometry and computer-aided design (CAD) and their applications to solving engineering problems. The course also serves as an introduction to the engineering design process, and provides students with opportunities to do practical engineering design projects, write technical reports, and prepare oral presentations. Transfer: CSU, UC\*.

**ENGINEERING TECHNOLOGY****EETC 400 SYSTEMS AND FACILITY MAINTENANCE ENGINEERING I**

*Units (Grade Option) 6.5; Class Hours: Minimum of 104 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course is an overview of facility maintenance engineering. Students analyze and apply essential skills needed in the workplace for maintaining and repairing building control systems, managing energy, handling customers, and applying occupational safety and health laws. Transfer: CSU.

**EETC 410 SYSTEMS AND FACILITY MAINTENANCE ENGINEERING II**

*Units (Grade Option) 6.5; Class Hours: Minimum of 104 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): EETC 400. Description:* Continuation of EETC 400. This employment-oriented course provides students with knowledge and skills in the areas of boilers, heating systems, and fluid dynamics; refrigeration and air handling systems, electrical systems illumination and applied mathematics; building design and maintenance; and understanding and reading blueprints. Transfer: CSU.

**ENGLISH**

A Cañada College English Placement Test or ESL Placement Test is required for enrollment in most English and English for non-native speakers (ESL) courses. The placement tests may be waived if a student has completed an English course with a grade of "C" or better at another accredited college in the United States and can provide transcripts indicating course completion. (See section on Assessment and Placement.)

**ENGL 100 READING AND COMPOSITION (CAN ENGL 2) (CAN ENGL SEQ A = ENGL 100 + 110)**

*Units 3; Class Hours: Minimum of 48 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ENGL 836 or 400 OR eligibility for ENGL 100 on approved college English Placement Test and other measures as necessary AND READ 836 with Credit or a grade of "C" or better OR eligibility for 400-level Reading courses on approved college Reading Placement Test and other measures as necessary. Description:* An intensive reading and writing course based on the study of primarily non-fiction materials of culturally diverse writers. Course writing emphasizes the expository and the argumentative forms. Emphasis is placed on writing coherent, compelling essays demonstrating critical thinking skills and the basic elements of building a convincing argument. Transfer: CSU, UC.

**ENGL 110 COMPOSITION, LITERATURE AND CRITICAL THINKING (CAN ENGL 4)****(CAN ENGL SEQ A = ENGL 100 + 110)**

*Units 3; Class Hours: Minimum of 48 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ENGL 100. Description:* In this course students read and analyze works of fiction, poetry, and drama and write critical expository essays which demonstrate skills in analysis and critical thinking. Transfer: CSU, UC.

**ENGL 161 CREATIVE WRITING I**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Prerequisite(s): ENGL 100. Description:* The craft of writing fiction. Designed to help beginning writers to find a way to begin and to encourage journeyman writers to continue. Emphasis falls upon writing technique and critical ability. Transfer: CSU, UC.

**ENGL 162 CREATIVE WRITING II**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Prerequisite(s): ENGL 100. Description:* The craft of writing poetry. Designed to help beginning writers to find a way to begin and to encourage journeyman writers to continue. Emphasis falls upon writing technique and critical ability. Transfer: CSU, UC.

**ENGL 164 CREATIVE NON-FICTION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Prerequisite(s): ENGL 100. Description:* The craft of writing the non-fiction genres, such as memoir, travel literature, biography, autobiography, and journal. Discussion and critiques of works by established authors. Workshop of students' own writing. Guidelines for submission for publication. Transfer: CSU.

**ENGL 165 ADVANCED COMPOSITION**

*Units 3; Class Hours: Minimum of 48 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ENGL 100. Description:* This is an advanced course in non-fiction writing. Students are taught to read and think critically and to write nuanced arguments. Transfer: CSU, UC.

**ENGL 400 COMPOSITION FOR NON-NATIVE SPEAKERS**

*Units 5; Class Hours: Minimum of 80 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 854 or appropriate skill level as indicated by placement test score and other measures as needed. Description:* In this course, students learn to plan, organize, compose, and revise expository essays based on the analysis of complex pieces of writing, both fiction and nonfiction. In addition, students review and follow the conventions of standard written English including punctuation, mechanics, grammar and sentence structure. Successful completion of BOTH English 400 AND Reading 836 is required for entrance into English 100. You may choose to enroll in English 400 and Reading 836 concurrently. Transfer: CSU, UC.

**ENGL 804 READING AND WRITING**

*Units 1-4; Class Hours: Minimum of 8-32 lecture/24-96 lab hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None. Description:* This course is designed to increase reading and writing skills through the reading of non-fiction and short fiction, development of vocabulary, and writing of paragraphs, presented in a variable unit, self-paced instructional mode. Units do not apply toward AA/AS degree. May be repeated for credit up to 4 units.

**ENGL 826 BASIC READING/COMPOSITION**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in READ 826. Description:* This course improves reading and writing skills through reading non-fiction and short fiction, developing vocabulary, and writing paragraphs. Units do not apply toward AA/AS degree.

**ENGL 836 WRITING DEVELOPMENT**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): Successful completion of ENGL 826 and READ 826, or eligibility for READ 836, and ENGL 836 or 400 based on scores on approved Cañada College assessment instruments (placement tests with multiple measures assessment), or \*successful completion of coursework at other colleges/universities equivalent to ENGL 826 and READ 826. Description:* Learn to plan, organize, compose and revise a college-level essay. Write text-based essays, and develop the ability to express ideas logically with detailed support. Review mechanics, grammar, and MLA documentation style. Develop the composition skills necessary to meet standards for entrance to English 100. Successful completion of BOTH English 836 and Reading 836 is required for entrance into English 100.

*\*Use the Office of Matriculation to approve course work completed at other colleges/universities to meet the prerequisite.*

**ENGL 875 GRAMMAR REVIEW**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None. Description:* While primarily intended as a semester length “brush up” course, English 875 also serves the remedial needs of students whose English Placement Test indicates a need for stringent review. Grammar, punctuation, vocabulary, and diction are included in the course. Units do not apply toward AA/AS degree.

**ENGL 890 CONTENT-BASED PROGRAM: STUDY SKILLS**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None. Description:* This course, part of the Content-Based Program, focuses on developing study skills and applying them in mainstream content courses. It is designed for native and non-native English-speaking students. Completion of ESL or E.I. 824 with a grade of “C” or better or placement by College ESL Placement Test or a score of 8.0 or better on College Reading Test is recommended. Units do not apply toward AA/AS degree.

## ENGLISH INSTITUTE - ENGLISH AS A SECOND LANGUAGE

**(INGLES COMO SEGUNDO IDIOMA)**

The English Institute is an intensive language development program that provides English as a Second Language instruction for students whose native language is not English. Students who wish to enroll in the program should have a knowledge of basic English equivalent to at least one year of previous study in programs such as Adult Basic Education and language schools, or previous language instruction in their native country. The ESL placement test is administered prior to the beginning of each semester in order to assess English ability for correct placement. For more information, students should contact the English Institute Office, Building 13, Room 121, or call 306-3412.

El Instituto de Inglés es un programa intensivo para el desarrollo del idioma que provee instrucción de Inglés como segundo idioma a los estudiantes cuyo idioma no es el Inglés. El estudiante que desee inscribirse en el programa, deberá tener un conocimiento básico del Inglés equivalente a por lo menos un año de estudio previo en un programa de Inglés como: Educación Básica para adultos, instituto de idiomas, o estudios previos en el país de origen. El examen de aptitud del Instituto de Inglés es administrado antes del comienzo de cada semestre. El resultado del examen colocará al estudiante en el nivel apropiado. Para más información pueden dirigirse a la oficina del Instituto de Inglés, localizada en el edificio 13, oficina 121, o pueden llamar al 306-3412.

**ESL 800 ESL PREPARATORY LEVEL**

*Units 8; Class Hours: Minimum of 128 lecture hours/semester; Basic Skills Level: Open Curriculum. Description:* Beginning-level English-language instruction for speakers of other languages. Developmental practice in all language skills: grammar, vocabulary, listening, speaking, reading, and writing. Preparation for ESL Level I courses. One year of previous English language study or placement by College ESL Placement Test is recommended. Units do not apply toward AA/AS degree.

**ESL 805 ADVANCED GRAMMAR REVIEW**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Prerequisite(s): ESL 804 or 824, or placement by College ESL Placement Test. Description:* This course is primarily for students whose native language is other than English. Students review, practice and synthesize the grammar and sentence structure of standard written English in context. Selections from fiction and non-fiction are used as a basis for discussion and analysis of language. In addition, students react to the readings in writing and focus on editing what they have written. Special attention is paid to a review of verb tenses as well as basic and advanced sentence structure. Units do not apply toward AA/AS degree.

**ESL 821 GRAMMAR/VOCABULARY I**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 800, or placement by College ESL Placement Test. Description:* Introduces students to basic elements of English grammar and vocabulary. Special attention is paid to English tenses, basic structures, prepositional phrases, and idiomatic expressions. Equivalent to two semesters of ESL instruction--beginner knowledge of English grammar: BE, HAVE, present progressive tense, simple present tense, possessive adjectives, some pronoun forms. Units do not apply toward AA/AS degree.

**ESL 822 GRAMMAR/VOCABULARY II**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 801 or 821, or placement by College ESL Placement Test. Description:* Introduces students to elements of English grammar and vocabulary at a low-intermediate level. Special attention is paid to English tenses, grammatical structures, sentence patterns, and idiomatic expressions. Units do not apply toward AA/AS degree.

**ESL 823 GRAMMAR/VOCABULARY III**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 802 or 822, or placement by College ESL Placement Test. Description:* Introduces students to elements of English grammar and vocabulary at an intermediate to high-intermediate level. Special attention is paid to English tenses, sentence patterns, prepositional phrases, and idiomatic expressions. Units do not apply toward AA/AS degree.

**ESL 824 GRAMMAR/VOCABULARY IV**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 803 or 823, or placement by College ESL Placement Test. Description:* Introduces students to advanced elements of English grammar and vocabulary. Special attention is paid to English tenses, complex structures, prepositional phrases, and idiomatic expressions. Units do not apply toward AA/AS degree.

**ESL 831 SPEAKING/LISTENING I**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 800 or placement by College ESL Placement Test. Description:* Introduces students to high-beginning speaking and listening skills. Attention is paid to pronunciation and use of idiomatic expressions, plus practice in English conversation. Units do not apply toward AA/AS degree.

**ESL 832 SPEAKING/LISTENING II**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 811 or 831, or placement by College ESL Placement Test. Description:* Introduces students to speaking and listening skills of English at the low-intermediate level. Special attention is paid to pronunciation and use of idiomatic expressions, plus practice in English conversation. Units do not apply toward AA/AS degree.

**ESL 833 SPEAKING/LISTENING III**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 812 or 832, or placement by College ESL Placement Test. Description:* Introduces students to speaking and listening skills at the high-intermediate level. Emphasis is on listening to academic and informal talks, note-taking, and oral communications skills. Units do not apply toward AA/AS degree.

**ESL 834 SPEAKING/LISTENING IV**

*Units 4; Class Hours: Minimum of 64 lecture hours/semester; Prerequisite(s): ESL 813 or 833, or placement by College ESL Placement Test. Description:* Introduces students to speaking and listening skills of English at the low-advanced level. Emphasis is on listening to academic and informal talks, note-taking, and oral communications skills. Units do not apply toward AA/AS degree.

**ESL 836 ENGLISH PRONUNCIATION**

*Units 2; Class Hours: Minimum of 32 lecture/16 by arrangement lab hours/semester; Prerequisite(s): None. Description:* This is a course for students whose native language is other than English. It is designed to train participants to American intonation and pronunciation. Units do not apply toward AA/AS degree.

**ESL 837 INTERMEDIATE VOCABULARY DEVELOPMENT**

*Units 2; Class Hours: Minimum of 32 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 801 or 811 or 821 or 831 or 841 or 851 or 861. Description:* In this course students learn to use word analysis skills to expand vocabulary, as well as to use strategies for understanding new words from contexts. There is additional attention to analysis of word parts and to expanding vocabulary via domains and concepts. Units do not apply toward AA/AS degree. May be repeated three times for credit.

**ESL 841 WRITING I**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 800 or placement by College ESL Placement Test. Description:* Introduces students to high beginning

academic writing in response to readings. Special attention is paid to the grammar and mechanics of written academic English. Comprehension and vocabulary development are also stressed. Units do not apply toward AA/AS degree.

**ESL 842 WRITING II**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 841 or 851, or placement by College ESL Placement Test. Description:* Introduces students to low intermediate practice in writing in response to readings in English. Special attention is paid to the grammar and mechanics of written academic English. Comprehension and vocabulary development are also stressed. Units do not apply toward AA/AS degree.

**ESL 843 WRITING III**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 842 or 852, or placement by College ESL Placement Test. Description:* Introduces students to writing in response to readings at the high-intermediate level. Special attention is paid to comprehension, the grammar and mechanics of written academic English, vocabulary development and paragraph writing. Units do not apply toward AA/AS degree.

**ESL 844 WRITING IV**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 843 or 853, or placement by College ESL Placement Test. Description:* Introduces students to advanced academic writing in response to readings. Special attention is paid to comprehension, vocabulary development, paragraph and essay writing, grammar and mechanics of written academic English. The course is designed to prepare students for college-entry courses. Units do not apply toward AA/AS degree.

**ESL 861 READING I**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 800 or placement by College ESL Placement Test. Description:* Introduces students to advanced beginning practice in reading English. Special attention is paid to reading comprehension. Vocabulary development and the mechanics of academic English are also stressed. Units do not apply toward AA/AS degree.

**ESL 862 READING II**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 851 or 861, or placement by College ESL Placement Test. Description:* Introduces students to low intermediate practice in reading in English. Special attention is paid to vocabulary and comprehension in academic English. Units do not apply toward AA/AS degree.

**ESL 863 READING III**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 852 or 862, or placement by College ESL Placement Test. Description:* Introduces students to high intermediate practice in reading in English. Special attention is paid to vocabulary and reading comprehension in academic English. Units do not apply toward AA/AS degree.

**ESL 864 READING IV**

*Units 4; Class Hours: Minimum of 64 lecture/16 by arrangement lab hours/semester; Prerequisite(s): ESL 853 or 863, or placement by College ESL Placement Test. Description:* Introduces students to advanced practice in reading academic English. Special attention is paid to advanced vocabulary and comprehension of original authentic readings. The course is designed to prepare students for college-level entry courses. Units do not apply toward AA/AS degree.

**ETHNIC STUDIES**

*(See individual courses)*

ANTH 360 Indians of North America  
 ANTH 370 Olmec, Maya, Aztec People and Cultures of Mexico and Central America  
 ART 125 Asian Art for Interiors: China and Korea  
 ART 126 Asian Art for Interiors: Japan and Southeast Asia  
 ART 127 Asian Art for Interiors: Japan, India, and the Philippines  
 ECON 230 Economic History of the United States  
 HIST 242 African-American History  
 HIST 245 Race, Ethnicity and Immigration in the U.S.  
 HIST 246 History of Latinos in the U.S.  
 HIST 422 Modern Latin America  
 HIST 425 Modern Latin America and the Caribbean  
 HIST 451 Far Eastern Civilization and Heritage I  
 HIST 452 Far Eastern Civilization and Heritage II  
 INTD 320 Asian Art for Interiors: China and Korea  
 INTD 321 Asian Art for Interiors: Japan and Southeast Asia  
 INTD 322 Asian Art for Interiors: Japan, India, and the Philippines  
 LIT. 252 Women Writers: Multicultural Perspectives  
 LIT. 266 Black Literature  
 LIT. 370 Readings in Literature of the Latino in the United States  
 LIT. 371 Mexican-American Literature  
 LIT. 372 Myth and Folklore of La Raza  
 LIT. 373 Latin American Literature in Translation  
 LIT. 375 Native-American Literature  
 PSYC 106 Psychology of Ethnic Minority Groups  
 SOCI 141 Understanding Diverse Racial/Ethnic Cultures  
 SOSC 250 Mexican-American Culture  
 SPAN 161 Readings in Spanish Literature I  
 SPAN 162 Readings in Spanish Literature II

**FASHION DESIGN****FASH 100 PRINCIPLES OF DESIGN**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Design principles and elements used in fashion to create effective and successful garment designs. Focus is on the recognition, analysis and evaluation of good design in both RTW and student's original designs. Other topics include sketching and presentation techniques. Transfer: CSU.

**FASH 110 BEGINNING CLOTHING CONSTRUCTION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in FASH 699. Description:* A course designed to provide an overview of basic sewing techniques, sewing machine skills, and understanding of fabrics and patterns. The focus is on teaching clothing construction methods for students with little or no sewing experience. Transfer: CSU.

**FASH 111 TECHNIQUES OF FIT**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Effective pattern alteration by pivot and slide techniques for skirts, pants and bodice patterns. Techniques used for sizing, ease, fabric variability, and the analysis of individual figure problems are examined. Transfer: CSU.

**FASH 113 TEXTILES**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* A study of natural and chemical fibers, yarns, weaving, finishing, and dyeing. Students also analyze methods used for purchasing and caring for clothing. Transfer: CSU, UC.

**FASH 115 INTERMEDIATE CLOTHING CONSTRUCTION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 110 or 111, or equivalent; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Intermediate sewing techniques for constructing collars, buttonholes, sleeves, hems, pockets, and other garment details. Students also learn how to construct garments using a variety of fabrics. Transfer: CSU.

**FASH 116 TAILORING**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in FASH 699. Description:* This course is designed to provide an overview of techniques applied to the construction of suits and coats. Students also analyze and adapt patterns for proper fit and evaluate and select fabrics for specific garments. Transfer: CSU.

**FASH 118 FLAT PATTERN**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Introduction to the use of basic pattern-making theory to create garment design. Students learn how to draft a basic pattern to fit individual figures and to design clothing from the patterns. Transfer: CSU.

**FASH 120 ADVANCED TECHNIQUES OF FIT**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 111 or 118 or equivalent; Corequisite(s): Concurrent enrollment in FASH 699. Description:* How to design or copy garments by combining and/or altering patterns. Other topics include the theory of pattern making and interpreting magazine sketches or pictures to make exact copies. Students are required to make three garments. Transfer: CSU.

**FASH 122 ADVANCED TAILORING**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 116; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Advanced tailoring techniques for the construction of jackets and coats. Students demonstrate mastery of collars, lapels, pockets, bound buttonholes, welt pockets, sleeves, and linings for suits and coats. Garments are constructed from commercial patterns or the student's original design with pattern adaptation for good personal fit. Transfer: CSU.

**FASH 123 INTRODUCTION TO THE FASHION INDUSTRY**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Analysis of trends and manufacturing techniques and their implications for fashion. Terminology, careers, and job responsibilities applicable to the fashion industry are covered. Transfer: CSU.

**FASH 124 CREATIVE TECHNIQUES**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Techniques used for embellishing clothing using originality and creativity. Students learn techniques for decorative machine stitchery, fabric painting, piecing, applique, and beading. Transfer: CSU.

**FASH 128 DECORATING WITH FABRIC FOR THE SMALL BUSINESS**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 110 or 115, or equivalent; Corequisite(s): Concurrent enrollment in FASH 699. Description:* Covers the basic techniques used to make custom curtains, draperies, pillows, bedspreads, table covers, and accessories. Emphasis is placed on how to select fabrics, determine yardage requirements, and handle large amounts of fabric. Transfer: CSU.

**FASH 129 CLOTHING CHOICES FOR ANY BODY**

*Units (Grade Option) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Learn how to analyze your figure by choosing flattering lines and proportions, and by comparing it to standard pattern measurements, as well as ready-to-wear sizing. Lifestyle and personal style preferences as well as current fashion and fabric trends are discussed. The evaluation of patterns, fabric, and garments are also included while choosing those that fit and flatter. Transfer: CSU.

**FASH 131 FABRIC EMBELLISHMENT**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* An in-depth study of embellishment techniques that can be used for clothing, home furnishings, and craft projects. Participation in hands-on, step by step demonstrations of different couture techniques and surface design work using diverse materials such as beads, satin cords, and trims are included. Transfer: CSU.

**FASH 132 TROUSER CONSTRUCTION**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Learn how to construct a classic trouser. Topics include fitting the trouser using a commercial pattern, pocket construction, button-fly front, classic and high faced waistbands, pleats, and lining. Transfer: CSU.

**FASH 133 COPYING READY-TO-WEAR**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Learn how to make a pattern from an existing garment without taking the garment apart. Through demonstration and hands-on experience, use the materials needed to generate this pattern from the existing garment, and make a muslin garment to test this pattern and refine it to ensure an exact duplicate of the original. Also included are facings, hem allowances, and other pertinent pattern drafting knowledge. Transfer: CSU.

**FASH 134 BEGINNING MILLINERY**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Introduction to the methods for designing and constructing millinery, millinery-blocking techniques and complete both a fabric covered buckram frame hat and a free form straw hat. Transfer: CSU.

**FASH 135 PRINCIPLES OF MANUFACTURING**

*Units (Grade Option) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Learn the basic principles required to manufacture a sewn product. Topics covered include sourcing fabric and trims, costing, locating, and evaluating contractors for pattern making, cutting and sewing. Transfer: CSU.

**FASH 140 BASIC SERGING**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* The use of the serger sewing machine for creating a variety of edge finishes while constructing garments is presented in this course.

**FASH 141 CREATIVE SERGING**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 140. Description:* Students learn fast, decorative serging techniques using a variety of threads, trims, and fabrics to make unique garments in this course.

**FASH 146 DESIGNER TECHNIQUES**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 110; Corequisite(s): Concurrent enrollment in FASH 699. Description:* An overview of designers of the past and present and their influence on fashion. Students analyze the designer details in ready-to-wear fashions and apply the same techniques in clothing construction. Transfer: CSU

**FASH 150 HISTORY OF FASHION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400;*

*Prerequisite(s): None. Description:* This course is a survey of fashions of Western Civilization from ancient cultures to the present day. Students analyze fashion trends and fads as influenced by industrial and political developments. Transfer: CSU.

#### **FASH 162 ADVANCED FLAT PATTERN**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 118; Corequisite(s): Concurrent enrollment in FASH 699. Description:* A comprehensive study of pattern making and the drafting techniques used for creating more advanced garment design. Students learn how to change clothing style lines and master dart manipulation for creating various fashion designs. Transfer: CSU.

#### **FASH 163 PATTERN GRADING**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Techniques for taking a single sized pattern and grading it up and down into multiple sizes. An overview of different size ranges, methods of grading, and grading rules is included. Transfer: CSU.

#### **FASH 164 FASHION ILLUSTRATION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* An overview of sketching for clothing design with emphasis on perception development through specific drawing exercises to develop fashion figure proportions. A variety of media and drawing techniques are used to create fashion sketches. Transfer: CSU.

#### **FASH 165 DESIGN INSPIRATION**

*Units (Credit/No Credit) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* An introductory, theoretical design course geared to familiarize students with the commonly recognized sources of inspiration for the modern-day designer. The course concentrates on translating various sources of inspiration into contemporary fashion designs via student sketch work and design analysis. Transfer: CSU.

#### **FASH 166 FASHION ENTREPRENEURSHIP**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* An overview of the fashion entrepreneurial opportunities in the apparel and sewn products industry. Establishing goals, record keeping, business promotion, and the advantages and disadvantages of self-employment are discussed. Individuals considering a small business relating to fashion, fabric, color, pattern work, and sewing profit from this course. Transfer: CSU.

#### **FASH 167 THE CUSTOM DRESS FORM**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Students learn how to create a customized dress form used for design development and sewing construction. Students are fitted in customized covers, and foam dress forms are shaped to fit these covers. Transfer: CSU.

#### **FASH 168 FASHION DRAPING**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None; Corequisite(s): Concurrent enrollment*

*in FASH 699. Description:* An overview of designing clothing on a dressform; students learn to use this three-dimensional design process to create patterns for original designs. Includes the translation of fashion ideas from design principles, while draping with muslin, to finished garments. Transfer: CSU.

#### **FASH 170 FRENCH PATTERN DRAFTING**

*Units (Grade Option) 2; Class Hours: Minimum of 32 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* In this course, students learn the French Couture method for drafting a master pattern. The master pattern, known as the moulage, is a form-fitting pattern that duplicates the figure exactly with no ease added. It is used to create the sloper and basic sleeve. These are used to design many different garment styles. Transfer: CSU.

#### **FASH 171 TROUSER MOULAGE**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Techniques for measuring and drafting a basic trouser sloper. Students then make the pattern in muslin and refine fit to produce a pattern for their figures. Drafting trouser details such as pockets, pleats, high waistbands, and fly-front is discussed also. Transfer: CSU.

#### **FASH 172 BUSTIER**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 170 or equivalent. Description:* This course is an introduction to the proper patternwork and construction techniques to create a well-fitting, well-performing strapless bodice (bustier), which can be adapted to evening wear or bridal wear. As these garments must fit closely, a well-fitting sloper, or the moulage from the French pattern drafting course is required. Transfer: CSU.

#### **FASH 175 ADVANCED ILLUSTRATION**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 164. Description:* The purpose of this course is to develop advanced fashion rendering skills and figure styles using a variety of media and drawing techniques to create original fashion illustrations. Emphasis is on developing flair, movement and attitude in the fashion figure. Drawing flats, specs, floats and fabric renderings are also covered. Transfer: CSU.

#### **FASH 178 COMPUTERIZED PATTERN GRADING**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 163. Description:* In this course, students learn how to use the PAD system, a professional computerized pattern development system, to grade patterns into multiple sizes. Transfer: CSU.

#### **FASH 180 COMPUTERIZED PATTERN DESIGN**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 118 or equivalent. Description:* This course is designed to teach PAD, a professional computerized pattern development system, to draft patterns for original designs. Students have the opportunity to develop patterns as used in the apparel industry. Transfer: CSU.

**FASH 181 ADVANCED COMPUTERIZED PATTERN DESIGN**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 180 or equivalent.*

**Description:** In this course students continue to develop their skills in using PAD, a professional computerized pattern development system. More advanced techniques and projects are covered, including the development of a line of designs realized in both patterns and fabric. Transfer: CSU.

**FASH 190 IMAGE FOR THE NEW CENTURY**

*Units (Credit/No Credit) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** In this new century the rules of dressing have changed. In this class students learn how to build a capsule wardrobe which makes the transition from business to casual to dressy. In addition, they learn guidelines for choosing styles and colors which highlight and flatter. Transfer: CSU.

**FASH 195 PORTFOLIO DEVELOPMENT**

*Units (Credit/No Credit) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** An overview of portfolio assembly methods for Fashion Design, with emphasis on professional display techniques of student's original designs. Course covers presentation techniques, materials, content considerations, organization, and layout choices. Transfer: CSU.

**FASH 196 INTRODUCTION TO THE COSTUME INDUSTRY**

*Units 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** Introduction to the theater costuming industry as a profession. Students have the opportunity to visit costume shops throughout the Bay Area, learn the various jobs which are needed within a costume shop, and understand the process of designing theatrical costumes from concept to completion. Field trips and guest speakers are included. Transfer: CSU.

**FASH 197 HISTORICAL AND THEATRICAL COSTUME DEVELOPMENT**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 118 or equivalent pattern experience.*

**Description:** Pattern development and construction of historical costumes, from the middle ages to the beginning of the twentieth century. Learn how to apply the principles of modern pattern making to various historical styles and use this knowledge to design and create historical costumes. The unique cut and construction of each historical period is covered, along with undergarments and accessories necessary for each period. Transfer: CSU.

**FASH 199 COSTUMING FOR THEATRICAL PRODUCTION**

*Units 3; Class Hours: Minimum of 48 lecture/32 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FASH 110 or equivalent sewing experience.*

**Description:** Learn to create costumes for an actual theatrical production. All aspects of theater costuming are utilized, including script analysis, design, pattern development, fitting, construction and alterations. Transfer: CSU.

**FASH 350 ISSUES IN FASHION**

*Units (Grade Option) 1-10 (no more than 3 units per semester); Class Hours: Minimum of 16 lecture hour/semester per unit; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** This modular approach to issues in fashion covers diverse content that is of particular relevance to fashion majors. Each module is self-contained. Specific modules are offered each semester and are announced in the current schedule of classes. A limit of three of the modules applies toward the Fashion Design Certificate. See course schedule for FASH 350 courses which have a requirement for concurrent enrollment in a sewing lab. Transfer: CSU.

**FILM****FILM 110 AMERICAN CINEMA**

*Telecourse: Units 3; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** Familiarizes students with the history of American Cinema, focusing on the studio system, the star system, genres, and directors. Develops film vocabulary and critical viewing skills. Transfer: CSU.

**FRENCH****FREN 110 ELEMENTARY FRENCH (CAN FREN 2)**

**(CAN FREN SEQ A = FREN 110 + 120)**

*Units 5; Class Hours: Minimum of 80 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** Conversation in the language, dictation, reading, study of the fundamentals of grammar and the writing of simple French exercises. The student is urged to make extensive use of the listening facilities in the language laboratory. Transfer: CSU, UC.

**FREN 111 ELEMENTARY FRENCH I**

*Units 3; Class Hours: Minimum of 48 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None.*

**Description:** The basic principles of beginning French, offered at a less intense pace than French 110. One semester equals approximately half of French 110. May be used for partial fulfillment of transfer language requirements. Transfer: CSU, UC\*.

**FREN 112 ELEMENTARY FRENCH II**

*Units 3; Class Hours: Minimum of 48 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 111.*

**Description:** Further basic principles of beginning French, offered at a less intense pace than French 110. One semester equals approximately half of French 110. May be used for partial fulfillment of transfer language requirements. Transfer: CSU, UC\*.

**FREN 120 ADVANCED ELEMENTARY FRENCH (CAN FREN 4) (CAN FREN SEQ A = FREN 110 + 120)**

*Units 5; Class Hours: Minimum of 80 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 110 or equivalent.*

**Description:** Conversation, dictation, further study of grammar and sentence structure; study of cognates, derivatives and idioms, reading of short stories. The student is urged to make extensive use of the listening facilities in the language laboratory. Transfer: CSU, UC.

**FREN 121 ADVANCED ELEMENTARY FRENCH I**

*Units 3; Class Hours: Minimum of 48 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 110 or equivalent. Description:* The basic principles of Advanced Elementary French, offered at a less intense pace than French 120. One semester equals approximately half of French 120. May be used for partial fulfillment of transfer language requirements. Transfer: CSU, UC\*.

**FREN 122 ADVANCED ELEMENTARY FRENCH II**

*Units 3; Class Hours: Minimum of 48 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 121. Description:* Further basic principles of Advanced Elementary French, offered at a less intense pace than French 120. One semester equals approximately half of French 120. May be used for partial fulfillment of transfer language requirements. Transfer: CSU, UC\*.

**FREN 130 INTERMEDIATE FRENCH (CAN FREN 8) (CAN FREN SEQ B = FREN 130 + 140)**

*Units 5; Class Hours: Minimum of 80 lecture/32 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 120 or equivalent. Description:* Reading of short stories, plays or novels, review of grammar, conversation, composition, and dictation. The student is urged to make extensive use of the listening facilities in the language laboratory. Transfer: CSU, UC.

**FREN 140 ADVANCED INTERMEDIATE FRENCH (CAN FREN 10) (CAN FREN SEQ B = FREN 130 + 140)**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 130 or equivalent. Description:* Reading of selections from French literature and reading of a contemporary novel; further practice of conversation and composition; continued review of principles of grammar; analysis of idioms. Transfer: CSU, UC.

**FREN 161 READINGS IN FRENCH LITERATURE I**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 140. Description:* Reading and discussion of works of French literature. Continued review of principles of grammar. Transfer: CSU, UC.

**FREN 162 READINGS IN FRENCH LITERATURE II**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 161. Description:* Further reading and discussion of works of French literature. Continued review of principles of grammar. Transfer: CSU, UC.

**FREN 196 FRENCH LANGUAGE LABORATORY**

*Units (Credit/No Credit) 0.5-1; Class Hours: Minimum of 24-48 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): FREN 120. Description:* A program consisting of 25-50 hours of work to be done in the language laboratory emphasizing speaking and understanding French. Transfer: CSU.

**FREN 197 FRENCH PRONUNCIATION**

*Units 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Comprehensive study of the theory and practice of pronunciation of the French language. Practical approach, with an

emphasis on much oral work in class and in the language laboratory, to improve the pronunciation skills of those persons who have been, or who will be, exposed to French at some level. Background in French recommended. Transfer: CSU.

**FREN 801 CONVERSATIONAL FRENCH I**

*Units (Grade Option) 2; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None. Description:* Practical course in the French language approached by way of conversation. Intensive drill in the formulas and idioms of daily speech is supported with sufficient grammar to give flexibility in the spoken language. (This course does not fulfill language requirement of California State Colleges or at the University of California.) Units do not apply toward AA/AS degree.

**FREN 802 CONVERSATIONAL FRENCH II**

*Units (Grade Option) 2; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): FREN 801. Description:* Further drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibility in the spoken language with particular attention paid to enlarging the particular vocabulary. (This course does not fulfill language requirement at California State Universities or at the University of California.) Units do not apply toward AA/AS degree.

**FREN 803 CONVERSATIONAL FRENCH III**

*Units (Grade Option) 2; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): FREN 802. Description:* More advanced drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibility in the spoken language with particular attention paid to enlarging the particular vocabulary. (This course does not fulfill language requirement at California State Universities or at the University of California.) Units do not apply toward AA/AS degree.

**FREN 804 CONVERSATIONAL FRENCH IV**

*Units (Grade Option) 2; Class Hours: Minimum of 48 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): FREN 803. Description:* Further advanced drill in the formulas and idioms of daily speech supported with sufficient grammar to give flexibility in the spoken language with particular attention paid to enlarging the particular vocabulary. (This course does not fulfill language requirement at California State Universities or at the University of California.) Units do not apply toward AA/AS degree.

**GEOGRAPHY****GEOG 100 PHYSICAL ENVIRONMENT (CAN GEOG 2)**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Introduction to the basic characteristics of maps, the earth's grid, seasons, time zones, weather and climate, soils and vegetation, ocean currents, and landforms. The inter-relationship of these basic factors is studied in the regional framework of the entire earth's surface. Transfer: CSU, UC.

**GEOG 110 CULTURAL GEOGRAPHY (CAN GEOG 4)**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Overview of culture within the geographic framework of race, language, religion, political boundaries, population distribution, settlement patterns, and making a living. Also included is an analysis of spatial distribution of the most important parts of human's cultural occupation of the earth. Transfer: CSU, UC.

**GEOG 301 INTRODUCTION TO MAP READING FOR GIS**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/16 lab/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course focuses on map reading skills and introducing the many uses of geographic information systems software. Transfer: CSU.

**GEOG 302 INTRODUCTION TO GIS AND ARCVIEW**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/16 lab/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): GEOG 301. Description:* This course introduces and provides hands-on instruction in ArcView software for geographic information systems. Transfer: CSU.

**GEOG 303 GIS APPLICATIONS**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture/16 lab/16 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): GEOG 302. Description:* Applications of ArcView GIS software. Students complete projects in an area of their choice. Transfer: CSU.

**GEOLOGY****GEOLOGICAL SURVEY OF GEOLOGY**

*Units (Grade Option) 3; Class Hours: Minimum of 32 lecture/48 lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* Basic principles of igneous, sedimentary and metamorphic geology are covered in this survey course. Also discussed are rocks, minerals and the origin of the earth, continents and mountains. Field trips may be required. Transfer: CSU, UC.

**GEOLOGICAL HAZARDS**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; 2 five-hour field trips/semester; Recommended: Eligibility for READ 836, ENGL 836 or 400, and MATH 111; Prerequisite(s): None. Description:* A study of the geological hazards in California and especially in the San Francisco Bay area and how these hazards affect man's social and economic well-being. Topics include earthquakes, landslides and volcanoes. Extensive rock and map studies are included. Two field trips are taken along the San Mateo County coast. Transfer: CSU, UC.

**HEALTH SCIENCE****GENERAL HEALTH SCIENCE**

*Telecourse: Units 2; Class Hours: Minimum of 32 lecture hours/semester; Basic Skills Level: Open Curriculum; Prerequisite(s): None. Description:* Survey of today's most prevalent health problems, including heart disease, cancer, venereal disease, birth control, drug abuse, and emotional disorders. Emphasizes detection, treatment, and prevention of personal and social health problems as well as the promotion of physical and emotional well-being. Transfer: CSU, UC.

**NUTRITION AND PHYSICAL FITNESS**

*Units 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, ENGL 836 or 400, and MATH 111; Prerequisite(s): None. Description:* A comprehensive overview of nutritional components and how they relate to athletic performance and health. Basic physiology and its relationship to diet, muscular performance and total health is explained. Each student completes a comprehensive evaluation of their current diet. Transfer: CSU.

**COMMUNICABLE DISEASE**

*Units 1; Class Hours: Minimum of 16 lecture/8 by arrangement lab hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* A comprehensive overview of the cause, transmission, symptoms and prevention of major communicable diseases. Student increase their awareness by taking responsibility for their own health. Transfer: CSU.

**WOMEN'S HEALTH ISSUES**

*Units (Grade Option) 1; Class Hours: Minimum of 16 lecture hours/semester; Recommended: Eligibility for READ 836, ENGL 836 or 400, and MATH 111; Prerequisite(s): None. Description:* Up to date study of how lifestyle choices influence current and future health of women. Role of diet, use of vitamin/mineral supplements, physical fitness, and the female menstrual cycle are studied. Transfer: CSU.

**FIRST AID**

*Units (Grade Option) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course provides training in basic first aid skills. Upon completion, student may obtain Red Cross First Aid certification. Transfer: CSU, UC\*.

**CPR: ADULT, CHILD, INFANT**

*Units (Grade Option) 0.5; Class Hours: Minimum of 8 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course qualifies students with CPR certification for health care providers. Includes instruction pertinent to adult, child and infant CPR. Automated External Defibrillator training is also included. Upon completion student may obtain Red Cross CPR Certification. Transfer: CSU, UC\*.

**SPECIAL TOPICS IN HEALTH SCIENCE**

*Units (Grade Option) 0.5-2.0; Class Hours: Minimum of 8-32 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course explores contemporary selected topics or themes as they relate to the health of individuals and society. Transfer: CSU.

**HISTORY****HISTORY OF WESTERN CIVILIZATION I (CAN HIST 2) (CAN HIST SEQ A = HIST 100 + 101)**

*Units (Grade Option) 3; Class Hours: Minimum of 48 lecture hours/semester; Recommended: Eligibility for READ 836, and ENGL 836 or 400; Prerequisite(s): None. Description:* This course surveys the civilizations of Europe and the Mediterranean Region in the ancient, medieval and early modern eras. Topics include: the Mesopotamians, Ancient Egypt, the Hebrews, Greece, Rome, the development and spread of Christianity, Europe during the medieval, Renaissance and Reformation periods, and the Age of Exploration. Transfer: CSU, UC.